# Safety Data Sheet (SDS) International (GHS)

Revision date: 1/20/2022



#### **SECTION 1: Identification**

Product identifiers:

Product trade name: Kalama\* Vetimoss
Company product number: VETIMOSS

Other means of identification: 32186; Benzene, 2-(1,1-dimethylethyl)-1,4-dimethoxy-

Recommended use of the chemical and restrictions on use:

Uses: Fragrance ingredient Restrictions on use: None identified

Details of the supplier:

Manufacturer/Supplier: Emerald Kalama Chemical Limited

Dans Road

Widnes, Cheshire WA8 0RF

United Kingdom

Telephone: +44 (0) 151 423 8000

For further information about this SDS: Email: product.compliance@emeraldmaterials.com

**Emergency telephone number:** 

ChemTel (24 hours): 1-800-255-3924 (USA); +1-813-248-0585 (outside USA);

1-300-954-583 (Australia); 000-800-100-4086 (India).

# SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture:

Germ Cell Mutagenicity, category 2, H341

Hazardous to the aquatic environment, Acute, category 2, H401 Hazardous to the aquatic environment, Chronic, category 2, H411

## Label elements:

## Hazard pictogram(s):





## Signal word:

Warning

#### **Hazard statements:**

H341 Suspected of causing genetic defects.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

## Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P391 Collect spillage.

P405 Store locked up.

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

#### **Supplemental information:** No Additional Information

Classification and hazards statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Regulations in individual countries/regions may determine which classifications and hazard statements are applicable based on adopted hazard classes and categories. Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Annex III. Regulations in individual countries/regions may determine which statements are required on the product label. See product label for specifics.

Other hazards: No Additional Information

See Section 11 for toxicological information.

# **SECTION 3: Composition/information on ingredients**

SDS Name: Kalama\* Vetimoss

#### Substance:

 CAS-No.
 Chemical Name
 Weight%

 0021112-37-8
 2-tert-Butyl-1,4-dimethoxybenzene
 99-100

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

## SECTION 4: First-aid measures

#### Description of first aid measures:

**General:** If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

**Eye contact:** Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If eye irritation persists: Get medical advice/attention.

**Skin contact:** Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Inhalation:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

**Most important symptoms and effects, both acute and delayed:** Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. See section 11 for additional information.

Indication of any immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

## SECTION 5: Fire-fighting measures

## **Extinguishing media:**

**Suitable:** Use water spray, ABC dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.

Unsuitable: Do not use direct water stream. May spread fire.

#### Special hazards arising From the chemical:

**Unusual fire/explosion hazards:** Product is not considered a fire hazard, but will burn if ignited. Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

**Hazardous combustion products:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Hazardous decomposition products) for additional information.

Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

See section 9 for additional information.

### **SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.

Environmental precautions: Do not flush liquid into public sewer, water systems or surface waters.

**Methods and materials for containment and cleaning up:** Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

## **SECTION 7: Handling and storage**

SDS Name: Kalama\* Vetimoss

**Precautions for safe handling:** As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area.

Conditions for safe storage, including any incompatibilities: Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning. Empty container contains residual product which may exhibit hazards of product.

# SECTION 8: Exposure controls / personal protection

#### **Control parameters:**

### Occupational exposure limits (OEL):

 Chemical Name
 ACGIH - TWA/Ceiling
 ACGIH - STEL

 2-tert-Butyl-1,4-dimethoxybenzene
 N/E
 N/E

 Chemical Name
 Australia
 N/E
 Philippines

 2-tert-Butyl-1,4-dimethoxybenzene
 N/E
 N/E
 N/E

Chemical NameAustraliaNew ZealandPhilippinesSingapore2-tert-Butyl-1,4-dimethoxybenzeneN/EN/EN/EN/EChemical NameJapan ISHLJapan JSOHTaiwanMalaysia2-tert-Butyl-1,4-dimethoxybenzeneN/EN/EN/EN/E

N/E=Not established (no exposure limits established for the listed substances for listed country/region/organization).

#### **Exposure controls:**

**Appropriate engineering controls:** Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

#### Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses or goggles required.

**Skin and body protection:** Wear chemical resistant (impervious) gloves. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

**Respiratory protection:** Respiratory protection is not needed with proper ventilation. Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS. Organic vapor filter (Type A).

Further information: Eyewash fountains and safety showers are recommended in the work area.

## **SECTION 9: Physical and chemical properties**

Form: Liquid pH: Not Available
Appearance: Colorless to light yellow Relative density: 0.994-0.996 (20°C)
Odor: Characteristic Partition coefficient (n4.4 (OECD 117)

octanol/water):

 Odor threshold:
 Not Available
 % Volatile by weight:
 Not Available

 Solubility in water:
 19.17 mg/L (20°C)
 VOC:
 Not Available

 Not Available
 Not Available
 Not Available

Evaporation rate:Not AvailableBoiling point °C:253 °C @ 101.3 kPaVapor pressure:20 Pa @ 20 °CBoiling point °F:487 °F @ 101.3 kPa

Vapor density: Not Available Flash point: 111 °C (232 °F) EU A.9 closed

cup

Viscosity: Not Available Auto-ignition temperature: 396°C (745°F) @ 1013 hPa

Flammability (solid, gas): Not Applicable (liquid)

Oxidizing properties: Not oxidizing Flammability or explosive LFL/LEL: Not Available

limits:

Explosive properties:Not explosiveUFL/UEL: Not AvailableDecompositionNot AvailableSurface tension:69.5 mN/m @ 20°C

temperature:

Other information: Amounts specified are typical and do not represent a specification.

-20°C (-4°F) @ 101.3 kPa

# **SECTION 10: Stability and reactivity**

Reactivity: None known.

Melting point/Freezing

point:

SDS Name: Kalama\* Vetimoss

Chemical stability: This product is stable.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Excessive heat and ignition sources.

Incompatible materials: Avoid contact with strong oxidizing agents.

Hazardous decomposition products: Carbon dioxide, carbon monoxide and hydrocarbons.

## **SECTION 11: Toxicological information**

### Information on likely routes of exposure:

**General:** Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

Eyes: May cause eye irritation.

Skin: Repeated or prolonged skin contact may cause irritation.

**Inhalation:** High airborne concentrations of vapors resulting from heating, misting or spraying may cause irritation of the respiratory tract and mucous membranes.

Ingestion: Ingestion may cause irritation.

Acute toxicity information: Not classified (based on available data, the classification criteria are not met).

 Chemical Name
 Inhalation LC50
 Species
 Oral LD50
 Species
 Dermal LD50
 Species

 2-tert-Butyl-1,4-dimethoxybenzene
 N/E
 N/E
 >2000 mg/kg (OECD Rat/ adult female
 N/E
 N/E

Skin corrosion/irritation: Not classified (based on available data, the classification criteria are not met).

 Chemical Name
 Skin irritation
 Species

 2-tert-Butyl-1,4-dimethoxybenzene
 Non-irritant (OECD 431 & 439)
 In-Vitro

Serious eye damage/irritation: Not classified (based on available data, the classification criteria are not met).

 Chemical Name
 Eye irritation
 Species

 2-tert-Butyl-1,4-dimethoxybenzene
 Non-irritant (OECD 438 & 492)
 In-Vitro

Respiratory or skin sensitization: Not classified (based on available data, the classification criteria are not met).

Chemical NameSkin sensitisationSpecie2-tert-Butyl-1,4-dimethoxybenzeneNon-sensitizer (Draize)Human

Carcinogenicity: Not classified (no relevant information found).

**Germ cell mutagenicity:** Suspected of causing genetic defects - Category 2. 2-TERT-BUTYL-1,4-DIMETHOXYBENZENE: In-vitro Mouse lymphoma assay (OECD 490): Negative in the absence of metabolic activation and positive in the presence of metabolic activation. In-vitro Ames (OECD 471) and in-vitro Micronucleus (OECD 487) tests: Negative with and without metabolic activation.

**Reproductive toxicity:** Not classified (based on available data, the classification criteria are not met). 2-TERT-BUTYL-1,4-DIMETHOXYBENZENE: Reproductive toxicity, oral study in rats: NOAEL (no-observed adverse-effect-level) 450 mg/kg bw/day (OECD 422). Developmental toxicity oral study, rats: NOAEL, developmental toxicity=450 mg/kg bw/day (OECD 422).

Specific target organ toxicity (STOT) - single exposure: Not classified (no relevant information found).

**Specific target organ toxicity (STOT) - repeated exposure:** Not classified (based on available data, the classification criteria are not met). 2-TERT-BUTYL-1,4-DIMETHOXYBENZENE: Repeated dose study, oral, rats (OECD 422): NOAEL (no-observed-adverse-effect-level)=150 mg/kg bw/day (male), 450 mg/kg bw/day (female) (systemic effects).

Aspiration hazard: Not classified (no relevant information found).

Other toxicity information: No additional information available.

# **SECTION 12: Ecological information**

#### **Ecotoxicity:**

 Chemical Name
 Species
 Acute
 Chronic

 2-tert-Butyl-1,4-dimethoxybenzene
 Fish
 LC50 2.51 mg/L (96 hours) (geometric mean measured)
 N/E
 N/E

 2-tert-Butyl-1,4-dimethoxybenzene
 Invertebrates
 EC50 2.7 mg/L (48 hours)
 N/E
 N/E

(geometric mean measured)

2-tert-Butyl-1,4-dimethoxybenzene Algae EL50 22.04 mg/L (72 hours) (yield) EL50 56.94 mg/L (72 hours) NOELR 6.25 mg/L (72 hours) (growth rate) NOELR 6.25 mg/L (72 hours)

Micro-organisms NOEC 30 mg/L (3 hours) (OECD

209)

Persistence and degradability:

2-tert-Butyl-1,4-dimethoxybenzene

Chemical Name Biodegradation

2-tert-Butyl-1,4-dimethoxybenzene Not readily biodegradable (OECD 301F)

Bioaccumulative potential:

<u>Chemical Name</u> <u>Bioconcentration Factor (BCF)</u> <u>Log Kow</u>

2-tert-Butyl-1,4-dimethoxybenzene N/E 4.4 (OECD 117)

Mobility in soil:

Chemical NameMobility in soil (Koc/Kow)2-tert-Butyl-1,4-dimethoxybenzene1660 @ 20°C (OECD 121)

Other adverse effects: No additional information available.

## **SECTION 13: Disposal considerations**

Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate.

See Section 8 for recommendations on the use of personal protective equipment.

# **SECTION 14: Transport information**

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

**UN number:** UN3082

#### UN proper shipping name:

Environmentally hazardous substance, liquid, n.o.s. (2-tert-Butyl-1,4-dimethoxybenzene)

Transport hazard class(es):

U.S. DOT hazard class: N/A Canada TDG hazard class: 9 Europe ADR/RID hazard class: 9 IMDG Code (ocean) hazard class: 9 ICAO/IATA (air) hazard class: 9

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

Packing group: III

**Environmental hazards:** 

Marine pollutant: Marine Pollutant (IMDG code 2.9.3). Hazardous substance (USA): Not Applicable

Special precautions for user: Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Not Applicable

# **SECTION 15: Regulatory information**

#### Safety, health and environmental regulations specific for the product in question:

#### Japan regulations:

Japan Industrial Safety and Health Law:

<u>Chemical name</u> <u>Category</u>

No subject chemicals

Japan Fire Service Law:

Chemical name Category

No subject chemicals

Japan Poisonous and Deleterious Substances:

Chemical name Category Threshold

No subject chemicals

Japan Prevention of Marine Pollution and Disaster:

Chemical name Category

No subject chemicals

Japan Chemical Substances Control Law:

<u>Chemical name</u> <u>Category</u> <u>Notes</u>

No subject chemicals

Other regulations: No Additional Information

#### Chemical inventories:

Regulation	<u>Status</u>
Australian Inventory of Industrial Chemicals (AIIC):	Υ
Canadian Domestic Substances List (DSL):	Υ
Canadian Non-Domestic Substances List (NDSL):	N
China Inventory of Existing Chemical Substances (IECSC):	Υ
European EC Inventory (EINECS, ELINCS, NLP):	Υ
Japan Existing and New Chemical Substances (ENCS):	N
Japan Industrial Safety and Health Law (ISHL):	Υ
Korean Existing and Evaluated Chemical Substances (KECL):	N
New Zealand Inventory of Chemicals (NZIoC):	Υ
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Υ
Taiwan Inventory of Existing Chemicals:	Υ
U.S. Toxic Substances Control Act (TSCA) (Active):	Υ

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory (or is not on the ACTIVE inventory for U.S. TSCA); 2) no information is available; or 3) the component has not been reviewed. A "Y" for New Zealand may mean that a qualified group standard may exist for the components in this product.

Chemical inventory notes: New Zealand: One or more components may be covered by a group standard.

**Europe REACH (EC) 1907/2006:** Applicable components are registered, exempt or otherwise compliant. EU REACH is only relevant to substances either manufactured or imported into the EU. Emerald Kalama Chemical has met its obligations under the EU REACH regulation. EU REACH information regarding this product is provided for informational purposes only. Each Legal Entity may have differing EU REACH obligations, depending on their place in the supply chain. Emerald's compliance with EU REACH does not imply automatic coverage for Downstream Users located in the EU. For material manufactured outside of the EU, the importer of record must understand and meet their specific obligations under the regulation.

## **SECTION 16: Other information**

## Legend:

\*: Trademark owned by Emerald Kalama Chemical, LLC.

ACGIH: American Conference of Governmental Industrial Hygienists

N/A: Not Applicable N/E: None Established

STEL: Short Term Exposure Limit

TWA: Time Weighted Average (exposure for 8-hour workday)

## Users Responsibility/Disclaimer of Liability:

The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.

Safety Data Sheet Preparer: Product Compliance Department Emerald Kalama Chemical, LLC 1499 SE Tech Center Place, Suite 300 Vancouver, WA 98683 United States