Safety Data Sheet (SDS) North American (U.S. and Canada)

Revision date: 1/20/2022

SECTION 1: Identification

Product identifiers:

Product trade name: Company product number: Other means of identification:	Kalama* Vetimoss VETIMOSS 32186; Benzene, 2-(1,1-dimethylethyl)-1,4-dimethoxy-
Recommended use of the chemical and restrict	tions on use:
Uses: Restrictions on use:	Fragrance ingredient 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
U.S. company:	Emerald Kalama Chemical, LLC 1499 SE Tech Center Place, Suite 300 Vancouver, WA 98683 United States Telephone: +1-360-954-7100
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).

Emerald Kalama[®]

Chemical

SECTION 2: Hazard(s) identification

Information in accordance with U.S. 29 CFR 1910.1200 (Hazcom 2012) and Canada Hazardous Products Regulations (WHMIS 2015):

Classification of the product:

Germ Cell Mutagenicity, category 2

Label elements:

Hazard pictogram(s):



Signal word: Warning

Hazard statements:

H341 Suspected of causing genetic defects.

Precautionary statements:

P201 Obtain special instructions before use.

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

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

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

P405 Store locked up.

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

Supplemental information: Hazardous to the aquatic environment - Chronic Category 2, Toxic to aquatic life with long lasting effects.

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.

Hazards not otherwise classified:

Physical hazards not otherwise classified: No Additional Information **Health hazards not otherwise classified:** No Additional Information

See Section 11 for toxicological information.

SECTION 3: Composition/information on ingredients

Substance:

CAS-No. 0021112-37-8 Chemical Name

2-tert-Butyl-1,4-dimethoxybenzene

Weight% 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

NFPA flammability class: IIIB

Extinguishing media:

Suitable: NFPA Class IIIB (Combustible liquid): 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

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 2-tert-Butyl-1,4-dimethoxybenzene Chemical Name	<u>ACGIH - TWA/Ceiling</u> N/E <u>OSHA - PEL</u>	<u>OSHA - STEL</u>	<u>ACGIH - STEL</u> N/E <u>OSHA - Ceiling</u>	<u>AIHA - WEEL</u>
2-tert-Butyl-1,4-dimethoxybenzene	N/E	N/E	N/E	N/E
Chemical Name	Canada Ontario	Canada Quebec	Canada Alberta	<u>Canada British</u> Columbia
2-tert-Butyl-1,4-dimethoxybenzene	N/E	N/E	N/E	N/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. (Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation: American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH, 45240-1634, USA.) (http://www.acgih.org/home.htm).

Individual protection measures, such as personal protective equipment (PPE):

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). Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

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

SECTION 9: Physical and chemical properties Liquid pH: Not Available

Form:	Liquid	pH:	Not Available
Appearance:	Colorless to light yellow	Relative density:	0.994-0.996 (20°C)
Odor:	Characteristic	Partition coefficient (n- octanol/water):	4.4 (OECD 117)
Odor threshold:	Not Available	% Volatile by weight:	Not Available
Solubility in water:	19.17 mg/L (20°C)	VOC:	Not Available
Evaporation rate:	Not Available	Boiling point °C:	253 °C @ 101.3 kPa
Vapor pressure:	20 Pa @ 20°C	Boiling 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
Melting point/Freezing point:	-20°C (-4°F) @ 101.3 kPa	Flammability (solid, gas):	Not Applicable (liquid)
Oxidizing properties:	Not oxidizing	Flammability or explosive limits:	LFL/LEL: Not Available
Explosive properties:	Not explosive		UFL/UEL: Not Available

Decomposition Not Available temperature:

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

SECTION 10: Stability and reactivity

Reactivity: None known.

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.

Symptoms/effects, acute and delayed: Irritation

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

	Chemical Name 2-tert-Butyl-1,4-dimethoxybenzene	<u>Inhalation LC50</u> N/E	<u>Species</u> N/E	<u>Oral LD50</u> >2000 mg/kg (OECD 423)	<u>Species</u> Rat/ adult female	<u>Dermal LD50</u> N/E	<u>Species</u> N/E
Skin corrosion/irritation: Not classified (based on available data, the classification criteria are not met).							
	Chemical Name 2-tert-Butyl-1,4-dimethoxybenzene	Skin irritation Non-irritant (OECD 4	31 & 439)	<u>Species</u> In-Vitro			

Species In-Vitro

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

Chemical Name	Eye irritation
2-tert-Butyl-1,4-dimethoxybenzene	Non-irritant (OECD 438 & 492)

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

Chemical Name	Skin sensitisation	Species
2-tert-Butyl-1,4-dimethoxybenzene	Non-sensitizer (Draize)	Human

Carcinogenicity: Not classified (no relevant information found).

Carcinogenic status: Not listed or regulated by IARC (Group 1 or 2), NTP, OSHA, or ACGIH.

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	Acute	<u>Chronic</u>		
	2-tert-Butyl-1,4-dimethoxybenzene	Fish	LC50 2.51 mg/L (96 hours)	N/E	N/E		
	2-tert-Butyl-1,4-dimethoxybenzene	Invertebrates	(geometric mean measured) EC50 2.7 mg/L (48 hours) (geometric mean measured)	N/E	N/E		
	2-tert-Butyl-1,4-dimethoxybenzene	Algae	EL50 22.04 mg/L (72 hours) (yield)	EL50 56.94 mg/L(72 hours) (growth rate)	NOELR 6.25 mg/L(72 hours) (growth rate)		
	2-tert-Butyl-1,4-dimethoxybenzene	Micro-organisms	NOEC 30 mg/L (3 hours) (OECD 209)	(growin rate)	(grown rate)		
Persi	Persistence and degradability:						
	Chemical Name 2-tert-Butyl-1,4-dimethoxybenzene	<u>Biode</u> Not re					
Bioa	Bioaccumulative potential:						
	Chemical NameBioconcentration Factor (BCF)Log Kow2-tert-Butyl-1,4-dimethoxybenzeneN/E4.4 (OECD 117)						
Mobi	Mobility in soil:						
	Chemical Name 2-tert-Butyl-1,4-dimethoxybenzene		ity in soil (Koc/Kow) @ 20°C (OECD 121)				

Other adverse effects: No additional information available.

SECTION 13: Disposal considerations

For waste disposal purposes, this product is not known to be defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261). Incinerate waste product when in liquid form (i.e., as supplied) in a properly permitted (approved) incineration facility in accordance with federal, state and local regulations. Liquids cannot be disposed of in a landfill.

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

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

Not Applicable

Special precautions for user: Not Applicable

SECTION 15: Regulatory information

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

U.S. federal and state regulations/legislation:

This SDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ):

Not Applicable

U.S. Superfund Amendments and Reauthorization Act (SARA) - SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372: None known

U.S. TSCA Section 12(b) Export Notification:

This product is not subject to TSCA 12(b) reporting requirements.

California Proposition 65:

The following ingredient(s) present in the product is [are] known to the State of California to cause cancer: None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

The following ingredient(s) present in the product is [are] known to the State of California to cause birth defects or other reproductive harm:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Ctatura

Notes: No additional information

Canada regulations/legislation:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

Notes: No additional information

Chemical inventories:

Regulation

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

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.

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

SDS Name: Kalama* Vetimoss

Health: 1* Flammability: Physical hazard: 0 1

Personal Protection: Х

NFPA (National Fire Protection Association) Ratings:

Flammability: Instability: Health: 1 1

0 Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme. An asterisk appearing after the HMIS Health numerical rating denotes a chronic hazard.

Hazardous Materials Identification System (HMIS), National Paint and Coating Association, rating applies to product "as packaged" (i.e., ambient temperature). Ratings are based upon HMIS® III and NFPA 704 (2007). An asterisk appearing after the HMIS Health® III numerical rating denotes a chronic hazard. National Fire Protection Association (NFPA) rating identifies the severity of hazards of material during a fire emergency (i.e., "on fire").

Legend:

* : Trademark owned by Emerald Kalama Chemical, LLC. ACGIH: American Conference of Governmental Industrial Hygienists AIHA WEEL: American Industrial Hygiene Association (AIHA) Workplace Environmental Exposure Level (WEEL) 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:

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice guidelines and employee instructional programs for your operation.

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