Safety Data Sheet (SDS)

International (GHS)

Revision date: 2020-12-17

SECTION 1: Identification

Product identifiers:

Product trade name: Kalama* 3-Phenyl Propanol FCC
Company product number: 3PPFCC
Other means of identification: Not Available

Recommended use of the chemical and restrictions on use:

Uses: Organic liquid
Restrictions on use: None identified

Details of the supplier:

Manufacturer/Supplier:
Emerald Performance Materials, LLC
Emerald Kalama Chemical, LLC
1296 NW Third Street
Kalama, WA 98625 United States
Telephone: +1-360-673-2550

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

SECTION 2: Hazard(s) identification

Classification of the substance or mixture:

Acute Toxicity, Oral, category 5, H303
Skin Corrosion, category 1B, H314
Hazardous to the aquatic environment, Acute, category 3, H402

Label elements:

Hazard pictogram(s):

Signal word:
Danger

Hazard statements:
H303 May be harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H402 Harmful to aquatic life.

Precautionary statements:
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.
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

Substance:

CAS-No.	Chemical Name	Weight%
0000122-97-4	3-Phenylpropan-1-ol	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. Get medical attention immediately.

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. Get medical attention immediately.

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: Burns, Eye redness and pain, 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: None known.

Special hazards arising From the chemical:

Unusual fire/explosion hazards: Product is not considered a fire hazard, but will burn if ignited. Run off water from firefighting

may have corrosive effects. 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. Do not get in eyes, on skin or clothing. Do not breathe dust, vapor, aerosol, mist or gas. Do not ingest, taste, or swallow. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. 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. Product can easily oxidize. It is recommended that opened containers be padded with nitrogen. Protect from light.

SECTION 8: Exposure controls / personal protection

Control parameters:

Occupational exposure limits (OEL):

Chemical Name	ACGIH - TWA/Ceiling		ACGIH - STEL	
3-Phenylpropan-1-ol	N/E		N/E	
Chemical Name	**Australia**	**New Zealand**	**Korea**	**Indonesia**
3-Phenylpropan-1-ol	N/E	N/E	N/E	N/E
Chemical Name	**Japan ISHL**	**Japan JSOH**	**Taiwan**	**Malaysia**
3-Phenylpropan-1-ol	N/E	N/E	N/E	N/E
Chemical Name	**Philippines**	**Singapore**		
3-Phenylpropan-1-ol	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.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection: Wear chemical resistant (impervious) gloves. Wear chemical resistant protective clothing. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. 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.
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:	Clear, Colorless	**Relative density:**	0.998-1.002 (25°C)
Odor:	Characteristic	**Partition coefficient (n-octanol/water):**	1.6 (OECD 117)
Odor threshold:	Not Available	**% Volatile by weight:**	100%
Solubility in water:	7799 mg/L @ 20°C	**VOC:**	100%
Evaporation rate:	Not Available	**Boiling point °C:**	236-238 °C
Vapor pressure:	25 Pa at 20 °C, 35 Pa at 25 °C, 143 Pa at 50 °C	**Boiling point °F:**	457-460 °F
Vapor density:	> 1	**Flash point:**	117 °C (242 °F) ISO 3679
Viscosity:	Not Available	**Auto-ignition temperature:**	405 °C (761 °F)
Melting point/Freezing point:	-18 °C (-0.4 °F)	**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 temperature:	Not Available		

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: Avoid exposure to air, moisture, ignition sources and elevated temperatures.

Incompatible materials: Avoid contact with strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

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: Causes serious eye damage.

Skin: Causes skin burns.

Inhalation: Exposure to vapors or mists may cause severe irritation and burns of the nose, throat and respiratory tract.

Ingestion: May be harmful if swallowed. Ingestion may cause severe irritation and burns of the mouth, throat and digestive

tract.

Acute toxicity information: May be harmful if swallowed - Category 5.

Chemical Name	Inhalation LC50	Species	Oral LD50	Species	Dermal LD50	Species
3-Phenylpropan-1-ol	N/E	N/E	2250 mg/kg	Rat/ adult	<5000 mg/kg	Rabbit/ adult

Skin corrosion/irritation: Causes severe skin burns - Category 1B. 3-PHENYLPROPAN-1-OL: OECD 431 Skin corrosion and OECD 439 Skin irritation in vitro tests: Corrosive (at 100% concentration); Not corrosive and not irritating (at <=50% concentration).

Chemical Name	Skin irritation	Species
3-Phenylpropan-1-ol	Corrosive (OECD 431 & 439)	In-Vitro

Serious eye damage/irritation: Causes serious eye damage - Category 1.

Chemical Name	Eye irritation	Species
3-Phenylpropan-1-ol	Corrosive	In-Vitro

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

Chemical Name	Skin sensitisation	Species
3-Phenylpropan-1-ol	Non-sensitizer	Weight of evidence

Carcinogenicity: Not classified (no relevant information found).

Germ cell mutagenicity: Not classified (based on available data, the classification criteria are not met). 3-PHENYLPROPAN-1-OL: Mutagenicity was negative in in-vitro genotoxicity assays.

Reproductive toxicity: Not classified (based on available data, the classification criteria are not met). 3-PHENYLPROPAN-1-OL: Reproductive and Developmental toxicity screening test (gavage) found a NOAEL = 300 mg/kg/day for reproductive and developmental toxicity.

Specific target organ toxicity (STOT) - single exposure: Not classified (based on available data, the classification criteria are not met).

Specific target organ toxicity (STOT) - repeated exposure: Not classified (based on available data, the classification criteria are not met). 3-PHENYLPROPAN-1-OL: Repeated dose study, oral, rat: NOAEL (no-observed-adverse-effect-level) =1000 mg/kg bw/day.

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	Chronic
3-Phenylpropan-1-ol	Fish	LC50 >61 mg/L (96 hours) (OECD 203)	N/E	N/E
3-Phenylpropan-1-ol	Invertebrates	EC50 60.6 mg/L (48 hours) (OECD 202)	N/E	N/E
3-Phenylpropan-1-ol	Algae	EC50 109 mg/L (72 hours) (OECD 201)	N/E	EC10 94.1 mg/L(72 hours) (OECD 201)
3-Phenylpropan-1-ol	Micro-organisms	NOEC 30 mg/L (N/E) (OECD 301F)		

Persistence and degradability:

Chemical Name	Biodegradation
3-Phenylpropan-1-ol	Readily biodegradable (OECD 301F)

Bioaccumulative potential:

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
3-Phenylpropan-1-ol	N/E	1.6 (OECD 117)

Mobility in soil:

Chemical Name	Mobility in soil (Koc/Kow)
3-Phenylpropan-1-ol	53

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: UN1760

UN proper shipping name:

Corrosive liquid, n.o.s. (3-Phenylpropan-1-ol)

Transport hazard class(es):

U.S. DOT hazard class: 8
Canada TDG hazard class: 8
Europe ADR/RID hazard class: 8
IMDG Code (ocean) hazard class: 8
ICAO/IATA (air) hazard class: 8

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

Packing group: II

Environmental hazards:

Marine pollutant: Not Applicable
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:

Chemical name	Category
No subject chemicals	

Japan Fire Service Law:

Chemical name	Category
3-Phenylpropan-1-ol	Group 4 - Flammable liquids

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:

Chemical name	Category	Notes
No subject chemicals		

Korean regulations:

Korea Industrial Safety and Health Act:

Chemical name	Category	Threshold
No subject chemicals		

Korea Act on Registration and Evaluation of Chemical Substances (K-REACH) - Substances subject to registration:

No subject chemicals

Korea Chemical Control Act (CCA):

Chemical name	Category	Code	Threshold
No subject chemicals			

Korea Safety Control of Dangerous Substances Act (MPSS):

Chemical name	Class	Threshold
No subject chemicals		

Korea Waste Control Act: Waste disposal methods must comply with local and national laws.

Chemical name	Notes
No subject chemicals	

Other regulations: No Additional Information

Chemical inventories:

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):	Y
Japan Industrial Safety and Health Law (ISHL):	Y
Korean Existing and Evaluated Chemical Substances (KECL):	Y
New Zealand Inventory of Chemicals (NZIoC):	N
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.

Chemical inventory notes: New Zealand: 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. REACh is only relevant to substances either manufactured or imported into the EU. Emerald Performance Materials has met its obligations under the REACh regulation. REACh information regarding this product is provided for informational purposes only. Each Legal Entity may have differing REACh obligations, depending on their place in the supply chain. 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 Performance Materials, 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.

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