

# MATERIAL SAFETY DATA SHEET

(Rev.ii-March-2014)

Alpha Methyl Cinnamic Aldehyde

## Section 1: IDENTIFICATION OF THE SUBSTANCE AND OF COMPANY

Product Name	<b>Alpha Methyl Cinnamic Aldehyde</b>
Chemical Name	2-methyl-3-phenylprop-2-enal
CAS No.	101-39-3
EC No.	202-938-8
Usage	In flavors and fragrances, Ingredient in the manufacturing of mixtures. Not intended for final consumer.
Manufacturer	<b>Breeze Intermediates Pvt. Ltd.</b> Z-39, Dahej SEZ, Dahej, Ta. Vagra, Dist. Bharuch (Guj.) India Tel.: +91 9825107638 Email: <a href="mailto:info@breezeipl.com">info@breezeipl.com</a>
Emergency telephone no.	+91 9825107638, +91 9925031257

## Section 2: HAZARDS IDENTIFICATION

Classification as per EC No. 1272/2008	Skin Irritation 2, H315 Skin Sensitization 1, H317
Classification as per Dir. 67/548/EEC	Xi-R38, R43
OSHA Hazard	Combustible Liquid, Skin sensitizer, Corrosive
Label elements including precautionary statement	<u>Pictogram</u> : None <u>Signal word</u> : Warning <u>Hazard statements</u> :- H227: Combustible liquid. <u>Precautionary statements</u> :- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/face protection. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P403 + P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/ container to an approved waste disposal plant.
Risk Phrases	R36/38: Irritating to skin and eyes
HMIS Classification	Health hazard: 1      Flammability: 1      Physical hazards: 0
NFPA Rating	Health hazard: 1      Fire: 1      Reactivity Hazard: 0
Potential Health Effects	<u>Inhalation</u> May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. <u>Skin</u> May be harmful if absorbed through skin. Causes skin burns. <u>Eyes</u> Causes eye burns. <u>Ingestion</u> May be harmful if swallowed
Other Hazards	The product does not contain substances included in the Substances of Very High Concern list (> 0.1 % w/w).



### **Section 3: INFORMATION ON INGREDIENTS**

Concentration of the constituent (% wt/wt)	95-100% (sum of isomers)
Chemical name	2-methyl-3-phenylprop-2-enal
Chemical Entity	Aryl substituted primary alcohol/aldehyde/acid/ester/acetal derivatives, including unsaturated ones.
Molecular Formula	C <sub>10</sub> H <sub>10</sub> O (M.W.= 146.18 g/mol)
CAS No.	101-39-3
EC/EINECS No.	202-938-8
FEMA	2697

### **Section 4: FIRST AID MEASURES**

Consumption (Ingestion)	If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Do not induce vomiting.
Eye Exposure	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Inhalation	If inhaled, remove person to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Skin Exposure	Wash immediately affected area with soap and plenty of water. Seek medical advice if irritation, pain, swelling, lacrimation or photophobia persists.
Most important symptoms and effects, both acute and delayed	Symptoms on inhalation: Choking, drowsiness, respiratory disruptions. Symptoms on eye contact: Irritation, reddening. Symptoms on skin contact: Irritation, stinging. Symptoms on ingestion: queasiness, stomach aches.
Immediate medical attention special treatment	Not applicable.
Others	Take Risk and Safety Phrases (section 15) into account

### **Section 5: FIRE-FIGHTING MEASURES**

Extinguishing Media	Water spray, Alcohol-resistant foam, carbon dioxide, dry chemical powder or appropriate foam. For safety reasons do not use full water-jet.
Hazards arising from the substance	Combustible liquid, if heated, pressure may increase resulting in container burst with a risk of subsequent explosion
Combustible Liquid	Keep away from source of heat, flame or spark. Cool endangered drums with water.
Advices for firefighters	In case of fire isolate the area, remove all persons from the vicinity, on the surrounding, follow the instructions: 1-Closed containers may build up pressure at high temperatures, use water spray to keep them cool. 2-Avoid inhalation of generated fumes or vapors. Use appropriate respiratory equipment. 3-Do not allow the spillage of the fire extinguishing to sink into a drainage system or water area.



### **Section 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	Handle the product using protective gloves resistant to the the chemicals exposed. Avoid contact with skin and inhalation of its vapours or smoke. Maintain adequate ventilation in the working area after spilling.
Environmental precautions	To avoid possible contamination of the environment, Do not discharge into any drains, surface waters or groundwaters
Methods and material for containment and cleaning up	Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Place in covered containers using non-sparking tools and transport outdoors. Avoid open flames or sources of ignition (e.g. pilot lights on gas hot water heater). Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with current laws and regulations.
Reference to other sections	Refer to section 13: Disposal considerations

### **Section 7: HANDLING AND STORAGE**

Precautions for safe handling	Keep away from food, drink and animal feedingstuffs. When using do not smoke. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.
Condition for Storage	Should be stored in tightly sealed and preferably full containers in a cool, well-ventilated, dry place, out of direct rays of the sun, Away from areas of high fire hazard, & should be periodically inspected. Incompatible materials should be isolated from each other.
Specific end use(s)	Not available

### **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters	Declaration of substances is not required.
Exposure controls	<u>Personal protection equipment:</u> Use personal protection equipment according to EC Directive 89/686/EEC. <u>Eye/Face protection:</u> Chemical safety goggles are recommended. Wash contaminated goggles before reuse. <u>Respiratory Protection:</u> Use personal breathing apparatus whenever deemed necessary. <u>Skin Protection:</u> Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Wash contaminated gloves before reuse. <u>Engineering Controls-Ventilation:</u> The areas where the product is handled and stored should be adequately ventilated.



### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

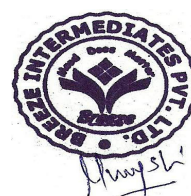
Appearance	pale yellow to yellow clear oily liquid
Odor	Characteristic, sweet cinnamom, spicy
Boiling point	137 °C to 138 °C @ 22 mmHg
Melting point	---
Flash point (closed cup)	79.44 °C.
Vapour Pressure	0.017000 mm/Hg @ 25 °C.
Vapour Density	---
Solubility in Water	752.8 mg/L @ 25 °C. (est)
Solubility in Alcohol	soluble
Specific Gravity	1.032~1.040 @ 25 °C.
Partition Coefficient (Octanol/Water)	2.319

### **Section 10: STABILITY AND REACTIVITY**

Chemical stability	Stable under normal operational condition. Oxidized slowly on exposure to heat, light and air.
Reactivity	Heat, excessive heat, open flames and other sources of ignition. Strong oxidizing agents, strong reducing agents.
Incompatibility	Does not react with water. Avoid contact with strong oxidizing mineral acids, strong reducing agents.
Hazardous decomposition Products	Hazardous combustion or decomposition products: carbon oxides and other unidentified organic compound.

### **Section 11: TOXOLOGICAL INFORMATION**

Acute toxicity	Oral Toxicity (LD <sub>50</sub> ): Oral-Rat 2050.00 mg/kg Dermal Toxicity (LD <sub>50</sub> ): Skin-Rabbit >5000 mg/kg
Inhalation Toxicity (LD <sub>50</sub> )	Not Determined
Skin corrosion/irritation	Irritant
Human Experience	8% : Skin irritation and 2% solution : sensitizing
Serious eye damage/eye irritation	Slightly irritant
Respiratory or skin sensitization	May cause sensitization by inhalation.
Germ cell mutagenicity	No data available
Carcinogenicity	<b>IARC:</b> No component of this product present at levels ≥0.1% is identified as probable, possible or confirmed human carcinogen by IARC. <b>ACGIH:</b> No component of this product present at levels ≥0.1% is identified as a carcinogen or potential carcinogen by ACGIH. <b>NTP:</b> No component of this product present at levels ≥0.1% is identified as a known or anticipated carcinogen by NTP. <b>OSHA:</b> No component of this product present at levels ≥0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity single exposure (GHS)	Inhalation - May cause respiratory irritation.



Specific target organ toxicity repeated exposure (GHS)	No data available
Aspiration hazard	No data available
Potential health effects	Refer to section 2: Hazards Identification
Signs and Symptoms of Exposure	burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting,
Additional Information	RTECS: GD6600000

### **Section 12: ECOLOGICAL INFORMATION**

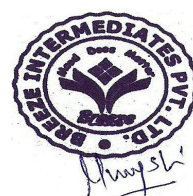
General	Prevent contamination of soil, ground and surface waters. Do not discharge product unmonitored into the environment.
Acute aquatic Toxicity	No data available
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	Low potential
Mobility in soil	No data available
PBT and vPvB assessment	Not determined. Not listed on EC's PBT substances list.
Other adverse effects	Do not allow the material to enter streams, sewers or other waterways

### **Section 13: DISPOSAL CONSIDERATION**

Product Disposal	Dispose of according all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
Packaging	Don not re-use empty containers. Empty residue into a suitable disposal site. Contaminated packaging should be disposed of as unused product.

### **Section 14: TRANSPORT INFORMATION**

<i>International Carriage of Dangerous Goods by Road (ADR)</i>	
UN No.	N/A
Proper Shipping Name	Not subject to ADR.
Packing Group	---
Class	---
Tunnel restriction code	---
Label	---
<i>Air Transport (ICAO/IATA)</i>	
UN No.	N/A
Proper Shipping Name	Not restricted
Class	---
Packing Group	---
<i>Sea Transport (IMDG)</i>	
UN No.	N/A
Proper Shipping Name	Not restricted
Class	---
Packing Group	---
EmS	---
Marine Pollutant	No



<i>DOT (US)</i>	
NA No.	1993
Class	None
Packing group	III
Proper shipping name	Combustible liquid n.o.s. (alpha methyl ciannamaldehyde)
Poison inhalation hazard	No

### **Section 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance	Substance(s) is (are) either included in EINECS, ELINCS, NPL inventories or exempted
Hazard Symbol	Xn-irritant
Risk Phrases	Refer to section 2: Hazards Identification
Safety Phrases	S 02 - Keep out of the reach of children. S 24/25 - Avoid contact with skin and eyes. S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 37/39 - Wear suitable, gloves and eye/face protection
WGK Germany	1
Chemical safety assessment	This product contains substances for which chemical safety assessments are still required.

### **Section 16: OTHER INFORMATION**

Hazardous materials identification system	Fire:1 Health:1 Reactivity: 0 Personal Protection:x
This material should be used for industrial purposes only.	

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