

SAFETY DATA SHEET

Creation Date 25-Jun-2014

Revision Date 14-Feb-2020

Revision Number 2

	1. Identification	
Product Name	Vanillin	
Cat No. :	A11169	
CAS-No Synonyms	121-33-5 4-Hydroxy-3-methoxybenzaldehyde	
Recommended Use Uses advised against Details of the supplier of the	Laboratory chemicals. Food, drug, pesticide or biocidal product use. safety data sheet	
Company Alfa Aesar Thermo Fisher Scientific Chem 30 Bond Street	cals, Inc.	

Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation Category 2 Combustible dust Yes Label Elements

Signal Word Warning

Hazard Statements

May form combustible dust concentrations in air Causes serious eye irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Vanillin	121-33-5	>95

4 First-aid measures

	4.1113t-ald measures
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Inhalation	Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Get medical attention.
Most important symptoms and effects	No information available.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	147 °C / 296.6 °F
Method -	No information available
Autoignition Temperature	Not applicable >400 °C / >752 °F
Explosion Limits Upper	No data available

Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Fine dust dispersed in air may ignite. Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.			
Environmental Precautions	Avoid release to the enviro not flush into surface water		litional Ecological Information. Do

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage	
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.	
Storage	Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Store under an inert atmosphere. Protect from light.	
8. E	xposure controls / personal protection	
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.	
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

Odor

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Physical State Powder Solid Appearance Off-white sweet **Odor Threshold** No information available 4.3 10 g/L (20°C) 81 - 84 °C / 177.8 - 183.2 °F Melting Point/Range Boiling Point/Range 170 °C / 338 °F @ 15 mmHg Flash Point 147 °C / 296.6 °F **Evaporation Rate** Not applicable No information available Flammability (solid,gas) Flammability or explosive limits No data available Upper No data available No information available

9. Physical and chemical properties

Lower Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity **Molecular Formula Molecular Weight**

Not applicable

No information available Soluble in water No data available Not applicable >400 °C / >752 °F No information available Not applicable C8 H8 O3 152.15

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Air sensitive. Light sensitive.	
Conditions to Avoid	Avoid dust formation. Incompatible products. Heat, flames and sparks. Exposure to air. Exposure to light.	
Incompatible Materials	Strong oxidizing agents, Strong bases, Alkaline, Reducing Agent	
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO2)	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Vanillin	LD50 = 1580 mg/kg (Rat) > 5010 mg/kg (Rabbit)		Not listed
Toxicologically Synergistic Products Delayed and immediate effects	No information available	short and long-term exposure	_
Irritation	Irritating to eyes		
Sensitization	No information available		
Carcinogenicity	The table below indicates w	whether each agency has listed ar	ny ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Vanillin	121-33-5	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effects		No information available.				
Developmental Effe	cts	No information ava	ilable.			
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		None known None known				
Aspiration hazard		No information available				
Symptoms / effects,both acute and delayed		No information available				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effects		The toxicological properties have not been fully investigated.				
		e toxicologioui p				

12. Ecological information

Ecotoxicity

Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Vanillin	Not listed	LC50: 53 - 88 mg/L/96 h (Pimephales promelas)	EC50 = 179 mg/L 210 min	EC50: = 180 mg/L, 24h (Daphnia magna)
Persistence and Degrada	ability Persistence i	s unlikely		

Bioaccumulation/ Accumulation No

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Vanillin	1.23

13. Disposal considerations

Waste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified as a
hazardous waste. Chemical waste generators must also consult local, regional, and
national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
DOT TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Vanillin	121-33-5	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL	
Vanillin	121-33-5	Х	-	204-465-2	Х	Х	Х	Х	KE-20615	
U.S. Federal Regulations										
SARA 313	Not app	licable								
SARA 311/312 Hazard Categories	s See see	See section 2 for more information								
CWA (Clean Water Act)	Not app	Not applicable								
Clean Air Act	Not app	Not applicable								
OSHA - Occupational Safety and Health Administration	Not app	Not applicable								
CERCLA	Not app	Not applicable								
California Proposition 65	This pro	This product does not contain any Proposition 65 chemicals.								
U.S. State Right-to-Know Regulations	Not app	Not applicable								
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	on N N N									
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.									
Other International Regulations										
Mexico - Grade	No info	mation av	ailable							

	16. Other information				
Prepared By Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com					
Creation Date Revision Date Print Date Revision Summary	25-Jun-2014 14-Feb-2020 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 121-33-5.				
Disclaimer					

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End of SDS