

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 4

1. Identification				
Product Name	o-Vanillin			
Cat No. :	AC153070000; AC153070025; AC153070100; AC153071000; AC153075000			
CAS No Synonyms	148-53-8 3-Methoxysalicylaldehyde; 2-Hydroxy-3-methoxybenzaldehyde			
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.			
Details of the supplier of the safe	ty data sheet			
<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410			

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

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

Acute oral toxicity
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Specific target organ toxicity (single exposure)
Target Organs - Respiratory system.

Category 4 Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eves 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 Indestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage Store in a well-ventilated place. Keep container tightly closed Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Benzaldehyde, 2-hydroxy-3-methoxy-	148-53-8	>95

4. First-aid measures				
General Advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.			
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated			

effects Notes to Physician	Treat symptomatically
Most important symptoms and	No information available.
Ingestion	Clean mouth with water. Get medical attention. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention. Artificial respiration and/or oxygen may be necessary. Consult a physician if necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
	clothes and shoes. Get medical attention. Call a physician immediately. SPEEDY ACTION IS CRITICAL, GET MEDICAL AID IMMEDIATELY. If symptoms persist, call a physician. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.		
Unsuitable Extinguishing Media	No information available		
Flash Point	> 112 °C / > 233.6 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits	No information available		
Upper	No data available No data available		
Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge			

Specific Hazards Arising from the Chemical 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.

NFPAHealthFlammability20		Instability 0	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions	Use personal protective eq people away from and upw		e personnel to safe areas. Keep	
Environmental Precautions Do not flush into surface water or sanitary sewer system.				
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter Up environment.				
	7. Handling	and storage		
Handling	Avoid contact with skin and	d eyes. Do not breathe mist/va	pors/spray.	

Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents. Strong bases. Strong reducing agents.	
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	Tight sealing safety goggles.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure. Impervious gloves.	
Respiratory Protection	No protective equipment is needed under normal use conditions.	
Hygiene Measures	When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.	

9. Physical and chemical properties

Physical State	Solid
Appearance	Light yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	40 - 42 °C / 104 - 107.6 °F
Boiling Point/Range	265 - 266 °C / 509 - 510.8 °F @ 760 mmHg
Flash Point	> 112 °C / > 233.6 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C8 H8 O3
Molecular Weight	152.15

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Air sensitive.	
Conditions to Avoid	Exposure to air. Incompatible products.	

Incompatible Materia	Atible Materials Strong oxidizing agents, Strong bases, Strong reducing agents					
Hazardous Decompo	sition Products	s Carbon monoxide	(CO), Carbon dio	kide (CO ₂)		
Hazardous Polymeri	zation	No information ava	ilable.			
Hazardous Reaction	S	None under normal processing.				
		11. Toxico	logical inf	ormation		
Acute Toxicity						
Product Information Component Informat	ion					
Component		LD50 Oral		LD50 Dermal		Inhalation
Benzaldehyde 2-hydroxy-3-meth	<i>'</i>	1330 mg/kg (Mouse))	Not listed	No	t listed
Toxicologically Syne Products	, ,	No information ava	ilable			
Delayed and immedi	ate effects as w	ell as chronic effe	cts from short ar	nd long-term expo	<u>sure</u>	
Irritation		No information available				
Sensitization		No information available				
Carcinogenicity		The table below inc	dicates whether e	ach agency has list	ed any ingredient a	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Benzaldehyde, 2-hydroxy-3-methoxy-	148-53-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effects	5	No information ava	ilable.			
Developmental Effect	ts	No information available.				
Teratogenicity		No information available.				
STOT - single exposureRespiratory systemSTOT - repeated exposureNone known						
Aspiration hazard		No information available				
Symptoms / effects, delayed	/ effects,both acute and No information available					

Endocrine Disruptor Information N	o information available
-	

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzaldehyde,	Not listed	LC50: 1.9-2.5 mg/L/ 96 h	Not listed	Not listed
2-hydroxy-3-methoxy-				

Persistence and Degradability Persistence is unlikely

Bioaccumulation/Accumulation No information available.

Mobility

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

Component	log Pow
Benzaldehyde, 2-hydroxy-3-methoxy-	1.37

	13. Disposal considerations
Waste Disposal Methods	Chemical 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 _ <u>TDG</u> IATA_	Not regulated
ΙΑΤΑ	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
Benzaldehyde, 2-hydroxy-3-methoxy-	148-53-8	Х	ACTIVE	-

Legend:

TSCA US EPA (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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzaldehyde,	148-53-8	Х	-	205-715-3	-	Х	Х	Х	Х	KE-20613
2-hydroxy-3-methoxy-										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	Slight risk, Grade 1
Authorisation/Restrictions according	ng to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzaldehyde, 2-hydroxy-3-methoxy-	148-53-8	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzaldehyde, 2-hydroxy-3-methoxy-	148-53-8	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS