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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Vanillin	**Revision date:** 2026-10-29	**Version:** 1.0	**Brand:** Richest

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	Vanillin
Synonyms	4-Hydroxy-3-methoxybenzaldehyde; Vanillic aldehyde
CAS No.	121-33-5
EC No.	204-465-2
Molecular formula	C8H8O3
Molecular weight	152.15 g/mol
Relevant identified uses	Flavouring agent for food and beverages; fragrance ingredient for perfumes and cosmetics; pharmaceutical intermediate
Uses advised against	None
Company	Richest Group Ltd.
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SECTION 2: Hazards identification

GHS Classification	Eye Irrit. 2
Pictogram(s)	GHS07 (Exclamation mark)
Signal word	Warning
Hazard statement(s)	H319 Causes serious eye irritation
Precautionary statement(s)	P264 Wash hands thoroughly after handling P280 Wear eye protection/face protection P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

	minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 If eye irritation persists: Get medical advice/attention
Other hazards	None known.

SECTION 3: Composition/information on ingredients

Component	Vanillin
CAS No.	121-33-5
EC No.	204-465-2
Classification	Eye Irrit. 2; H319
Concentration (%)	≤100 %

SECTION 4: First aid measures

If inhaled	Move to fresh air. Get medical attention if symptoms occur.
In case of skin contact	Remove contaminated clothing. Wash skin with soap and plenty of water. Get medical attention if irritation develops.
In case of eye contact	Rinse cautiously with plenty of water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
If swallowed	Rinse mouth with water. Do NOT induce vomiting. Get medical attention if feeling unwell.
Most important symptoms and effects	Causes serious eye irritation.
Indication of any immediate medical attention	Treat symptomatically. Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

Suitable extinguishing media	Water spray, dry chemical, carbon dioxide (CO2), alcohol-resistant foam.
Unsuitable extinguishing media	None.
Special hazards arising from the chemical	Combustion may produce carbon oxides and irritating fumes.
Advice for firefighters	Wear self-contained breathing apparatus and full protective clothing. Cool containers with water spray.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid dust formation and breathing dust. Ensure adequate ventilation. Wear suitable personal protective equipment (see Section 8).
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and cleaning up	Sweep up and shovel into suitable containers for disposal. Avoid raising dust.

SECTION 7: Handling and storage

Precautions for safe handling	Avoid contact with eyes. Avoid formation of dust. Ensure adequate ventilation. Wash hands after handling.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a cool, dry and well-ventilated place. Protect from light and moisture.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	None established (no occupational exposure limit values known)
Biological limit values	No biological exposure index (BEI) established.
Appropriate engineering controls	Ensure adequate ventilation. Provide eyewash station and safety shower.
Eye/face protection	Wear safety glasses with side shields.
Skin protection	Wear suitable protective gloves (e.g. nitrile rubber).
Body protection	Wear suitable protective clothing.
Respiratory protection	Not required under normal use; use a suitable respirator if vapours or dust are generated.
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Crystalline powder
Colour	White to light yellow
Odour	Characteristic vanilla odour
Melting point / freezing point	81 - 83 °C
Boiling point or initial boiling point and boiling range	285 °C at 1,013 hPa
Flammability	Combustible solid

Lower and upper explosion limit / flammability limit	As with any organic dust, dust-air mixtures may be explosive.
Flash point	ca. 153 °C (closed cup)
Auto-ignition temperature	> 400 °C
Decomposition temperature	> 160 °C
pH	4.3 (10 g/L, 20 °C)
Kinematic viscosity	Not applicable (solid)
Solubility	Slightly soluble in water (ca. 10 g/l at 25 °C); soluble in ethanol, glycerol and hot water
Partition coefficient n-octanol/water	log Pow: 1.21
Vapour pressure	< 0.01 hPa at 25 °C
Density and/or relative density	1.06 g/cm3
Relative vapour density	ca. 5.2 (Air = 1.0)
Particle characteristics	Crystalline powder

SECTION 10: Stability and reactivity

Reactivity	No dangerous reactions known under normal conditions of use.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions known under normal conditions of use.
Conditions to avoid	Heat, light and moisture.
Incompatible materials	Strong oxidizing agents, strong bases.
Hazardous decomposition products	Carbon oxides.

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat - 1,580 mg/kg
Skin corrosion/irritation	Skin - Rabbit - Mild skin irritation (RTECS)
Serious eye damage/irritation	Causes serious eye irritation (H319)
Respiratory or skin sensitization	Not classified; rare cases of skin sensitization reported
Germ cell mutagenicity	Ames test negative (with and without metabolic activation)
Carcinogenicity	No component of this product present at levels greater than or equal to

	0.1 % is identified as a carcinogen by IARC, NTP or OSHA
Reproductive toxicity	Not classified based on available data
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration hazard	Not applicable (solid)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	Toxicity to fish: LC50 - Pimephales promelas - 88 mg/l - 96 h (HSDB) Toxicity to daphnia: EC50 - Daphnia magna - ca. 53 mg/l - 48 h (literature data)
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	Low bioaccumulation potential (log Pow 1.21)
Mobility in soil	Moderately mobile in soil (estimated log Koc ca. 1.8)
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Dispose of in accordance with local, regional and national regulations. Do not discharge into drains or the environment.
Contaminated packaging	Empty containers should be disposed of in accordance with applicable regulations; offer for recycling if possible.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	Not regulated as dangerous goods
UN Proper Shipping Name	Not applicable
Transport hazard class(es)	None
Packing group	None
Environmental hazards (Marine pollutant)	No
Special precautions for user	No special precautions required during transport.

SECTION 15: Regulatory information

Safety, health and environmental	EINECS: Listed (204-465-2) / TSCA: Listed / IECSC: Listed / China Catalog

regulations specific for the product	of Hazardous Chemicals 2015: Not listed

SECTION 16: Other information

Full text of H-Statements	H319 Causes serious eye irritation
Revision date	2026-10-29
Version	1.0

Abbreviations and acronyms: CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

References: ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

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