SAFETY DATA SHEET

Revision date: 01-Nov-2023

GHS Classification

SIGNAL WORD Warning

Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2020

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier		
Product Name	EUROVANILLIN RANGE	
Product Code(s)	00000025360	
Other means of identification		
Synonyms	EuroVanillin Plus; EuroVanillin Plus 1200; EuroVanillin Bakery; EuroVanillin Chocolate; EuroVanillin Expert; EuroVanillin Plus DS	
Recommended use of the chem	nical and restrictions on use	
Recommended use	Food and Pharmaceutical applications.	
Uses advised against	No information available	
Details of the supplier of the sa	fety data sheet	
<u>Supplier</u> Ixom Operations Pty Ltd (Bronsor Street Address: 166 Totara Street Mt Maunganui South New Zealand	n & Jacobs division) - incorporated in Australia et	
Telephone Number: +64 9 309 25 Facsimile: +64 9 0508 366 364	28	
For further information, please	<u>contact</u>	
Contact Point	Product Safety Department	
Emergency telephone number		
Emergency Telephone	0 800 734 607 (ALL HOURS)	
Please ensure you refer to the limitations o	f this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.	
2. HAZARDS IDENTIFIC	ATION	
Not classified as a Dangerous Go	od under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.	
Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.		





HSR002578

Serious eye damage/eye irritation

Category 2

Label elements



Hazard statements H319 - Causes serious eye irritation

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear eye protection/ face protection **Precautionary Statements - Response**

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

Other hazards which do not result in classification

May be harmful if swallowed May be harmful in contact with skin May form combustible dust concentrations in air Dust can form an explosive mixture with air

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

Chemical name	CAS No.	Weight-%
3-ethoxy-4-hydroxy benzaldehyde	121-32-4	50-99
Vanillin	121-33-5	1-25

4. FIRST AID MEASURES

Description of first aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.
Emergency telephone number	Poisons Information Center, New Zealand: 0800 764 766 Poisons Information Center, Australia: 13 11 26
Inhalation	Remove to fresh air. Call a physician if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub affected area. Get medical attention if symptoms occur.
Skin contact	Wash skin with soap and water. Call a physician if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed			
Symptoms	Irritation. May cause redness and tearing of the eyes.		
Indication of any immediate medic	al attention and special treatment needed		
Note to physicians	Treat symptomatically.		
5. FIRE FIGHTING MEASU	IRES		
Suitable Extinguishing Media			
Suitable Extinguishing Media	Fine water spray. Foam. Dry chemical. Carbon dioxide (CO2).		
Unsuitable extinguishing media	High volume water jet.		
Specific hazards arising from the o	chemical		
Specific hazards arising from the chemical	Combustible solid. On burning will emit toxic fumes, including those of oxides of carbon. Dust can form an explosive mixture with air. Avoid generation of dust. Most organic dusts are combustible and according to the circumstances under which the combustion process occurs, such materials may cause fires and/or dust explosions. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (includingsecondary explosions). Dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC). When processed with flammable liquids/vapors/mists, ignitable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will increase the rate of explosion pressure rise and the Minimum Ignition Energy (the minimum amount ofenergy required to ignite dust clouds - MIE) will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixture will be lower than the individual LELs for the vapors/mists or dusts. Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion have resulted from chain reactions of this type. Dry dust can be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport. Build-up of electrostatic charge may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection m		

Hazardous combustion products Oxides of carbon.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Avoid generation of dust. Evacuate personnel to safe areas. Wash thoroughly after handling. Use personal protective equipment as required.
Other information	Ventilate the area.
For emergency responders	Shut off ignition sources. Clear area of all unprotected personnel. Use personal protection recommended in Section 8.
Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.
Methods and material for containm	nent and cleaning up
Methods for containment	Stop leak if you can do it without risk. Remove ignition sources. Provide adequate ventilation. Keep out of drains, sewers, ditches and waterways. Soak up condensate with inert absorbent material and collect in ventilated waste container for disposal.
Methods for cleaning up	Cover with damp absorbent(inert material, sand or soil). Vacuum or sweep material and place in a disposal container. Use non-sparking tools. Avoid generation of dust. Use personal protective equipment as required. Pick up and transfer to properly labelled containers.
Precautions to prevent secondary	hazards
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handlingAvoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Avoid
generation of dust. May form flammable dust clouds in air. Take precautionary measures
against static discharges. Take off contaminated clothing and wash before reuse. Wash
thoroughly after handling. Use personal protection equipment. Use according to package
label instructions. Handle in accordance with good industrial hygiene and safety practice.General hygiene considerationsContaminated work clothing should not be allowed out of the workplace. Regular cleaning
of equipment, work area and clothing is recommended. Wash hands before breaks and
immediately after handling the product. Avoid contact with skin, eyes, and clothing. Wear
suitable gloves and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a cool, well-ventilated place. Protect from sunlight. Store
away from sources of heat or ignition. Store away from incompatible materials described in
Section 10. Keep container closed when not in use.

Incompatible materials

Strong alkalis. Strong oxidizing agents. Strong acids. Metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for particulate(s):

Particulates not otherwise classified: 8hr WES-TWA 10 mg/m3 (inhalable dust) or 3 mg/m3 (respirable dust)

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, DUST MASK.



meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Environmental exposure controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties			
Physical state	Solid		
Appearance	Powder		
Color	White Light yellow		
Odor	Vanilla		
Odor threshold	No information available		
Property_	Values_	Remarks • Method	
pH	~4.5 in a 1% solution	None known	
Melting point / freezing point	76 - 78 °C	None known	
Boiling point / boiling range	~285 °C	None known	
Flash point	~127°C	CC (closed cup)	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air		None known	
Upper flammability or explosive	No data available		
limits			
Lower flammability or explosive	No data available		
limits			
Vapor pressure	~ 0.0029 kPa	None known	
Vapor density	~ 5.8	None known	
Relative density	~ 1.307	None known	
Water solubility	No data available	None known	
Solubility(ies)	Soluble in organic solvents.	None known	
Partition coefficient	1.55 - 1.61	None known	
Autoignition temperature	>400 °C	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	

Other information

10. STABILITY AND REACTIVITY

Reactivity	
Reactivity	No information available.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Possibility of hazardous reactions	
Possibility of hazardous reactions	None under normal processing.

Conditions to avoid

Conditions to avoid Avoid exposure to heat, sources of ignition, and open flame. Dust formation. Direct sunlight.

Incompatible materials

Incompatible materials Strong alkalis. Strong oxidizing agents. Strong acids. Metals.

Hazardous decomposition products

Hazardous decomposition products Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:
Inhalation	May cause irritation.
Eye contact	Causes serious eye irritation. Dust contact with the eyes can lead to mechanical irritation.
Skin contact	May cause irritation. May be harmful in contact with skin.
Ingestion	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Symptoms	Irritation. May cause redness and tearing of the eyes.
Acute toxicity	

Numerical measures of toxicity No information available

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
3-ethoxy-4-hydroxy	>3160 mg/kg (Rat) (1)	>2000 mg/kg (Rat) (1)	-
benzaldehyde			
Vanillin	> 3925 mg/kg (Rat)(1)	> 2000 mg/kg (Rat)(1)	-

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Not classified. (1).
Serious eye damage/eye irritation	Causes serious eye irritation. Classification is based on mixture calculation methods based on component data.
Respiratory or skin sensitization	Not classified. (1).
Germ cell mutagenicity	Not classified. (1).
Carcinogenicity	No information available.

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity	Avoid contaminating waterways.
Terrestrial ecotoxicity	There is no data for this product.

Chemical name	EarthWorm	Avian	Honeybees
Vanillin	NOEC = 10000 mg/kg (Eisenia foetida 42 Days soil dry weight)	-	-

Chemical name	Algae/aquatic plants	Fish	Crustacea
3-ethoxy-4-hydroxy benzaldehyde	-	LC50: 81.4 - 94.3mg/L (96h, Pimephales promelas)	-
Vanillin	-	LC50: 53 - 61.3mg/L (96h, Pimephales promelas) LC50: =88mg/L (96h, Pimephales promelas) LC50: =57mg/L (96h, Pimephales promelas)	EC50: =180mg/L (24h, Daphnia magna)

Persistence and degradability

Persistence and degradability	Readily biodegradable. (1).

Bioaccumulative potential

Bioaccumulation

Bioaccumulation is not expected. (1).

<u>Mobility</u>

Mobility in soil

No information available.

Component Information

Chemical name	Partition coefficient
Vanillin	1.23

Other adverse effects

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

	Dispose of product in packaging/container in a way that is consistent with the Hazardous Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments and Revocations) Notice 2020. Treat the chemical using a method that changes the characteristics or composition of the chemical so that the chemical is no longer a hazardous chemical; or export the chemical from New Zealand as waste.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT	Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.
<u>IATA</u>	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.
<u>IMDG</u>	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

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

New Zealand	
National regulations	See section 8 for national exposure control parameters
International Inventories NZIoC TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AIIC	All the constituents of this material are listed on the New Zealand Inventory of Chemicals or are regulated through the Food Standards Australia New Zealand (FSANZ). Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. This product is a food additive and is regulated by Food Standards Australia New Zealand (FSANZ).
DSL/NDSL - Canadian Domestic Se	nces Control Act Section 8(b) Inventory ubstances List/Non-Domestic Substances List tory of Existing Chemical Substances/European List of Notified Chemical Substances emical Substances Chemical Substances ted Chemical Substances nemicals and Chemical Substances

AllC- Australian Inventory of Industrial Chemicals

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. OTHER INFORMATION

(1) Supplier Safety Data Sheet 12/2022

Prepared By	This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).
Issuing Date:	01-Nov-2023
Reason(s) For Issue:	5 Yearly Revised Primary SDS

Revision Note:

The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION		
TWA	TWA (time-weighted average)	STEL
Ceiling	Maximum limit value	*
С	Carcinogen	

STEL (Short Term Exposure Limit) Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian Industrial Chemicals Introduction Scheme (AICIS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

<u>Disclaimer</u>

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris and Australian Botanical Products.

End of Safety Data Sheet