

SAFETY DATA SHEET

Etylvanillin

Last changed: 17/12/2010

Replaces date: 23/06/2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

TRADE NAME Etylvanillin
CHEM. NAME 3-Etoksy-4-hydroksybenzaldehyd
SYNONYMS Etyl Vanillin, Bourbonal, Vanillal
FORMULA C9H10O3
CAS NO. 121-32-4;
EC NO. 204-464-7;

NATIONAL MANUFACTURER/IMPORTER

Enterprise Borregaard Industries Limited
Address P.O. Box 162
Country Norway
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CONTACT PERSONS

Name	E-mail	Telephone	Country
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Emergency Phone	Type of assistance	Opening Hours
+47 22 59 13 00	National dept.for poisons information (Norway)	24 h
+47 69 11 88 88	Borregaard emergency no.	24 h

2. HAZARDS IDENTIFICATION

HEALTH

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization in susceptible persons. May be irritating to eyes. Dust may irritate respiratory system.

FIRE AND EXPLOSION

Easily ignitable. Dust may form explosive mixture with air.

Classification: Xi, R36,

CLP Classification: Eye Irrit. 2 H 319

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	Classification	CLP Classification
Ethyl vanillin		204-464-7	121-32-4	> 99 %	Xi,R36	Eye Irrit. 2 H319

Explanation of symbols: T+=highly toxic, T=toxic, C=corrosive, Xn=harmful, Xi=irritant E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment, Cancer=Carcinogenic, Mut=Mutagenic, Rep=Toxic for reproduction, Conc.=Concentration

4. FIRST AID MEASURES

GENERAL

Immediately remove contaminated clothes and wash them before reusing.

INHALATION

Fresh air if there are symptoms of injury. Contact physician if symptoms appears.

SKIN CONTACT

Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. Contact physician if irritation persists.

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EYE CONTACT

Remove any contact lenses and continue rinsing with water for at least 15 minutes (keep the eyelids open). Get medical attention if any discomfort continues.

INGESTION

Thoroughly rinse the mouth with water. Induce vomiting if a large amount has been ingested and the person is fully conscious. Never give anything by mouth to an unconscious person. Get medical attention.

MEDICAL INFORMATION

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use extinguishing media appropriate for surrounding fire.

IMPROPER EXTINGUISHING MEDIA

Do not use a direct water jet.

FIRE AND EXPLOSION HAZARDS

Can form dust clouds that may explode on contact with flames, heat and oxidizers. Thermal decomposition may give rise to substances that may irritate and/or be hazardous on inhalation. The product is combustible. Non-flammable.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Use compressed air breathing apparatus and protective clothing intended for fire fighting.

OTHER INFORMATION

In the event of fire, carbon monoxides and hydrocarbons may be given off. Use water for cooling exposed containers. Note the risk of dust explosion.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear necessary protective equipment. Provide good ventilation.

SAFETY ACTIONS TO PROTECT EXTERNAL ENVIRONMENT

Must not be released into the sewage system, drinking water supply or ground. Do not empty into drains.

METHODS FOR CLEANING UP

Collect with vacuum cleaner or carefully sweep together and collect. Collect in marked containers and deliver to approved depot. Wash contaminated surfaces with water.

7. HANDLING AND STORAGE

HANDLING ADVICE

Dust may form explosive mixture with air. Air the room. Avoid direct contact. Use only in well-ventilated areas. Use personal protective equipment.

STORAGE

Keep in cool, dry, ventilated storage and closed containers. Avoid high temperatures and direct sunlight. Ground container and transfer equipment to eliminate static electric sparks. Electrical equipment must be protected in accordance with applicable regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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EXPOSURE CONTROL

Avoid direct contact. Avoid inhalation. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothes and wash them before reusing. Facilities for eye rinsing must be available.

RESPIRATORY PROTECTION

Respirator with P2 particle filter.

EYE PROTECTION

Use tight fitting goggles if dust is generated.

HAND PROTECTION

Wear suitable gloves. PVC.

PROTECTIVE CLOTHING

Wear appropriate clothing to prevent repeated or prolonged skin contact.

OEL value

Ingredient name	CAS no.	Range	ppm	mg/m3	Year	Notification
Nuisance dust, total		8 h		10	2003	

R=Toxic for reproduction, H=Skin absorption, K=Carcinogenic, A=Sensitising, T=Upper limit, M=Mutagenic

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Crystals or powder.
COLOUR	White. Yellowish white.
ODOUR	Vanilla. Characteristic.
SOLUBILITY	Organic solvents.
WATER SOLUBILITY	10 g/l ~ 1 g / 100 ml (50 'C) 50 'C

Physical and chemical parameters

Parameter	Value/unit	Method/reference	Observation
Melting point	76.00 - 78.00 °C		
Boiling point	285.00 °C		
Density	1.05 g/cm ³		
Molecular weight	166.19		
Odour threshold	7 ppm		

OTHER INFORMATION

Ref. : Hawley's Condensed Chemical Dictionary, 12th Edition; BIBRA Toxicity Profile, 1988; personal analysis / experience

10. STABILITY AND REACTIVITY

STABILITY

Stable under recommended storage and handling conditions. Avoid heat, light & moisture.

MATERIALS TO AVOID

Oxidizing substance. Strong alkalis. Strong acids. Metals. Reacts with alkali metals.

HAZARDOUS DECOMPOSITION PRODUCTS

Dangerous products of decomposition: carbon monoxide. Phenol. Carbon dioxide is formed when heated or in a fire.

11. TOXICOLOGICAL INFORMATION

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ACUTE TOXIC TEST RESULTS

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Route of exposure	Exposure time	Value/unit	Species	Source
LD50 (Oral)		> 2000.00 mg/kg	Rat / rabbit	

INHALATION

May be irritating.

SKIN CONTACT

Non-irritant. May cause allergic eczema in already sensitised persons.

EYE CONTACT

Irritating to eyes.

INGESTION

Low acute toxicity.

SENSITISATION

Repeated or long-term contact with broken or sensitive skin may cause skin allergy.

CARCINOGENICITY

This product includes no components assumed carcinogenic (OSHA, NTP, IARC ;ACGIH)

MUTAGENICITY

Not a mutagen in Ames test.

OTHER TOXICOLOGICAL INFORMATION

Acceptable daily intake (ADI) for human is intended for 0-10 mg/kg/day (The Joint FAO/WHO Expert Committee on Food Additives.)

12. ECOLOGICAL INFORMATION

ACUTE AQUATIC TEST RESULTS

Not tested for toxicity in aquatic environment. Based on analogy for vanillin, does this product make small risk to the environment. Readily biodegradable. Not bioaccumulating in water environments Ref.: Hawley's Condensed Chemical Dictionary,

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS

Where possible, recycling is preferred to disposal or incineration. Refuse can be incinerated in an incinerator equipped with an afterburner and washer. Emptied and cleaned packaging can be recycled or burnt.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods: No

OTHER INFORMATION

Not classified as dangerous goods.

15. REGULATORY INFORMATION

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Signal word: Warning

EC-Label: Not assessed

COMPOSITION

Ethyl vanillin (> 99 %)

H Statements

H319 Causes serious eye irritation.

P Statements

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337/313 If eye irritation persists: Get medical advice/attention.

LEGISLATION

Guiding values for pollution in the working atmosphere (ADN) (Norway-2005).

Regulation to dangerous waste from ministry of Norway (2005).

Norwegian adaption to Annex 1 of directive 67/548/EEC.

Norwegian regulations regarding classification and labelling of dangerous chemicals (incl.preparations)(2005)

ADR/RID (2007).

REACH (EC 1907/2006)

GHS / CLP (EC NO1272/2008)

OTHER INFORMATION

Components are listed in EINECS (Europe), TSCA (USA), DSL (Canada), AICS (Australia), MITI (Japan) og KECL (South Korea)

This product is listed on GRAS,section 182.60, page 453 in CFR-21; It is named as "flavoring agent" page 496 in Food Chemical Codex(2001)

French regulation allow this product in all products were artificial aromas can be used.

This product not include any components regulated in "Californian proposition 65)

16. OTHER INFORMATION

VENDOR NOTES

Information given in this safety data sheet is in accordance with our information, and to the best of our knowledge, was correct on the last revision date. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

LIST OF RELEVANT R-PHRASES

R36 Irritating to eyes.

LIST OF RELEVANT H-STATEMENTS

H319 Causes serious eye irritation.

ISSUED: 05/09/2003

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REVISION HISTORY

Version	Rev. date	Responsible	Changes
0.0.1	13/07/1999	.	oppdatert i chess
0.0.2	08/04/2002	.	.
0.0.3	12/06/2003	.	.
0.0.4	05/09/2003		Oppdatert i chess ihht gjeldende lover og regler
0.0.5	30/01/2006	Borregaard Ind Ltd	Updated according to existing regulations.
0.0.6	23/06/2010	Borregaard Ind Ltd	Updated according to current regulations (NIHA)
0.0.7	17/12/2010	Borregaard Ind Ltd	Updated according to CLP (NIHA)