Safety Data Sheet



HEALTH 2 **FLAMMABILITY** 3 REACTIVITY 0

Section 1: **IDENTIFICATION**

Butyraldehyde (n-Butyraldehyde), Natural Product Name:

Product Name: 0221900 Recommended Use: Flavorings

Manufacturer: Aurochemicals

7 Nicoll Street

Washingtonville, NY 10992 - USA

845-496-6064 845-496-6248 Fax

Emergency Telephone No.: 1-800-535-5053

(International 1-352-323-3500 collect)

HAZARD(s) IDENTIFICATION Section 2:

OSHA Hazards Flammable Liquid, Irritant **GHS Classification** Flammable liquids (Category 2) Acute toxicity, Oral (Category 5)

Acute toxicity, Inhalation (Category 5) Acute toxicity, Dermal (Category 5) Eye irritation (Category 2A) Acute aquatic toxicity (Category 3)

GHS Label elements, including precautionary

statements:

Pictogram or written description

Signal Word: Danger

Highly flammable liquid and vapor Hazard Statement: H225

May be harmful if swallowed or H303+

H313 In contact with skin

H319 Causes serious eye irritation May be harmful if inhaled H333 Harmful to aquatic life H402

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Keep away from heat/sparks/open flames/hot surfaces-No smoking **Precautionary Statement** P210

IF IN EYES: Rinse cautiously with water for several minutes. P305+

P351+ Remove contact lenses if present and easy to do.

P338 Continue rinsing

2 **HMIS Classification** Health Hazard

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Flammability 3 Physical Hazards 0

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation
Skin May be harmful if absorbed through skin. Causes skin irritation

Eyes Causes eye irritation
Ingestion May be harmful if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component Butyraldehyde
Common Name: Butyraldehyde
Synonyms: Butanal
CAS # 123-72-8
EC# 204-646-6
EC-Index No. 605-006-00-2
Molecular Formula C4H8O

Section 4: FIRST AID MEASURES

General Advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out

of dangerous area.

If inhaled Move person to fresh air. Consult a physician.

In case of skin contact Remove contaminated clothing, rinse area with cool water then wash with mild soap and

warm water.

Ingestion: DO NOT Induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

Clothing: Wash contaminated clothing before re-use

Section 5: FIREFIGHTING MEASURES

Conditions of Flammability Flammable in the presence of a source of ignition when the temperature is above the

flash point. Keep away from heat/sparks/open flame/hot surface-No smoking

Suitable Extinguishing Media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide

Special Firefighting Procedures: Do not stay in danger zone without self contained breathing apparatus

Prevent fire-fighting water from entering surface or ground water. Discharge into the

environment must be avoided.

Special Risks Highly Flammable. Vapors heavier than air. Forms explosive mixtures with air at ambient

temperatures. Development of hazardous combustion gases or vapors in the event of fire.

Other Information Cool container with water spray from a safe distance. Contain escaping vapors with

water. Prevent fire-fighting water from entering surface water or ground water. Keep

away from sources of ignition

Section 6: ACCIDENTIAL RELEASE MEASURES

Person-related precautionary measures Evacuate personnel to safe areas. Do not inhale vapors, mist, or gas. Beware of vapors

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accumulating to form explosive concentrations; Ensure supply of fresh air in enclosed

rooms.

Wear respirator, safety glasses, chemical resistant gloves.

Environmental-protected measures Do not allow to enter drains or sewage system or released into environment.

Procedures for cleaning / absorption

Ventilate area

With absorbent, sweep up and discard in container, set out for disposal.

After sweep up, wash area and ventilate area well

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling Avoid contact with skin and eyes. Avoid inhalation of vapor and mist.

Use explosion proof equipment when handling this product.

Keep away from sources of ignition-No smoking. Take measures to prevent the buildup

of electrostatic charge.

Conditions for Safe Storage Store tightly closed, in well ventilated place – no smoking. Containers which are opened

must be carefully resealed and kept upright to prevent leakage.

Stench

Dry residue is explosive. Store under inert gas.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits			Compone	ents with workplace control parameters
Component	CAS-No.	Value	Control Parameters	Basis
Butyraldehyde	123-72-8	TWA	25 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

Personal Protective Equipment:

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.

Protective clothing should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory Protection: Required when vapors / aerosols are generated

Eye Protection: Wear eye and face protection – Face Shield

Hand Protection: Wear chemically resistant gloves

Industrial Hygiene: Handle in accordance with good industrial hygiene and safety practice. Wash

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contaminated clothing before reuse. Wash hands after working with product.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid Color: Colorless

Odor: Characteristic Pungent odor

Boiling Point: 75°C
Flashpoint: -11.1°C
Melting Point: N/a
Ignition temperature 190°C

Oxidizing Properties: Not oxidizing; Flammable

Lower Explosion Limit 1.8 vol% Upper Explosion Limit 8 vol%

Vapor Pressure: 120 hPa (90mmHg) at 20°C

Specific Gravity @ 25°C: 0.800-0.835 Solubility 1:27 in water

Section 10: STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Vapors may form explosive mixture with air.

Conditions to avoid Heat, Flames, Sparks and extremes of temperature and direct sunlight.

Materials to avoid Oxidizing agents, Strong bases, Strong reducing agents, Strong acids.

Hazardous decomposition products Formed under fire conditions – Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

LD50, Oral Rat

LC50 Inhalation –mouse

LD50 Dermal Rabbit

Other information on acute toxicity

2490 mg/kg

44,610 mg.m3 2 h

3560 mg/kg

No data available

Skin corrosion/irritation Rabbit: No skin irritation

Serious eye damage/eye irritation Rabbit: Moderate eye irritation -24 h
Respiratory or skin sensitisation No data available

Germ Cell mutagenicity

Positive results from mutagenicity tests in mammals. Evidence that the substance has potential to cause mutations to germ cells.

Genotoxicity in vitro-Hamster – Ovary: Sister chromatid exchange

Genotoxicity in vitro-Hamster-Lungs: Mutation in mammalian somatic cells

Genotoxicity in vitro-Rat-Liver: Unscheduled DNA synthesis

Genotoxicity in vitro-Mouse-Oral: Sperm

Genotoxicity in vitro-Mouse-Intraperitoneal: Sperm

Carcinogenicity

IARC No components of this product, present at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product, present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by ACGIH.

NTP No component of this product, present at levels greater than or equal to 0.1% is identified as

a known or anticipated carcinogen by NTP.

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OSHA No component of this product, present at levels greater than or equal to 0.1% is identified as

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a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

Teratogenicity

Specific Target Organ toxicity-Single exposure

No data available
No data available
No data available

(GHS)

Specific Target Organ toxicity-Repeated

exposure (GHS)

Aspiration hazard No data available

Potential Health effects

Inhalation May be harmful if inhaled. Causes respiratory irritation.

Ingestion May be harmful if swallowed.

No data available

Skin May be harmful if absorbed through skin. Causes skin irritation

Eyes Causes eye irritation

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical and toxicological properties have not

been thoroughly investigated.

Synergistic effects No data available

RTECS: ES2275000

Section 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50-Pimephales promelas (fathead minnow) 25.8 mg/l -96 h

Toxicity to daphnia and other aquatic

invertebrates

EC50-Daphnia magna (water flea) 195mg/l -24 h

Persistence and degradability

Mobility in Soil

PBT and vPvB assessment

Biodegradability

No data available

No data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal. Harmful to aquatic life.

Section 13: DISPOSAL CONSIDERATIONS

Product: According to local regulations
Packaging: According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US) UN1129 Class 3 Packing Group II

Proper Shipping Name Butyraldehyde

Reportable Quantity (RQ)

Marine Pollutant No Poison Inhalation Hazard No

IMDG UN1129 Class 3 Packing Group II

Proper Shipping Name BUTYRALDEHYDE EMS-No. F-E, S-D

Marine Pollutant No

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IATA UN1129 Class 3 Packing Group II

Butyraldehyde

Section 15: REGULATORY INFORMATION

OSHA Hazards Flammable liquid, irritant

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III,

Section 302

SARA 313 Components The following components are subject to the reporting levels established by SARA Title III,

Section 313:

Butyraldehyde CAS # 123-72-8 Rev. Date: 4/24/1993

SARA 311/312 Hazards Fire Hazard, Acute Health Hazard

Massachusetts Right to Know Components Butyraldehyde CAS # 123-72-8 Rev. Date: 4/24/1993

Pennsylvania Right to Know Components Butyraldehyde CAS # 123-72-8 Rev. Date: 4/24/1993

New Jersey Right to Know Components Butyraldehyde CAS # 123-72-8 Rev. Date: 4/24/1993

California Prop. 65 Components

This product does not contain any chemicals know to State of California to cause cancer,

birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

Issued by:		Contact Person:
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