

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	DECANAL 50% in ETOH, Natural
Product Number	0236200
CAS-No.	112-31-2/64-17-5

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992
Telephone	845-496-6065
Fax	845-496-6248

1.4 Emergency Telephone Number

1-800-535-5053
International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity-single exposure (Category 3), Respiratory system, H335
Carcinogen (Category 1A) H350

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement **Danger**

Hazard Statement(s)	H225 Highly Flammable liquid and vapor H315 Cause skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation H350 May cause cancer
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Precautionary P210 Keep away from heat/sparks/open flames/hot surfaces-No Smoking

Statement(s)	<p>P233 Keep container tightly closed</p> <p>P240 Ground, bond container and receiving equipment</p> <p>P241 Use explosion proof electrical/ventilating/lighting equipment</p> <p>P242 Use only non sparking tools</p> <p>P243 Take precautionary measures against static discharge</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection</p> <p>P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water to several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTER or doctor / physician if you feel unwell</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention</p> <p>P362 Take off contaminated clothing and wash before reuse</p> <p>P370+P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction</p> <p>P403+P233 Store in a well ventilated place. Keep container tightly closed</p> <p>P403+P235 Store in a well ventilated place. Keep cool</p> <p>P405 Store locked up</p> <p>P501 Dispose of contents/container to an approved waste disposal plant</p>
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2.3 HNOC (Hazards not otherwise classified or not covered by GHS –None)

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances	Aldehyde C-10
Chemical Characteristics	Mixtures (Ethanol Solution)
CAS-No	112-31-2 / 64-17-5
EC-No.	203-957-4 / 200-578-6
Index No. (Ethanol)	603-002-00-5

Hazardous Components

Component	Classification	Concentration
Decanal.....	Flammable liquids (4), H227 Skin irritation (2), H315 Eye irritation (2A), H319 Specific target organ toxicity-single exposure (3), Respiratory system, H335	50%
Ethanol.....	Flammable Liquids (2) H225 Carc. (1A), H350	50%

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Consult physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area
Inhalation	Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water and contact a physician.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 as a precaution and consult a physician.

Ingestion DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Clothing contamination: Remove contaminated clothing and wash before reuse.

- 4.2 Most important symptoms and effects both acute and delayed** See section 2.2 and or section 11
4.3 Indication of any immediate medical attention and special treatment needed. No data available

Section 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing Media**
Suitable Extinguishing Media For small (incipient) fires, use media such as alcohol foam, dry chemical, or carbon dioxides. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
- 5.2 Special hazards arising from the substance or mixture** Carbon oxides
- 5.3 Advice for fire fighters** Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions
- 5.4 Further information** Use water spray to cool unopened containers.

Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- 6.2 Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.
- 6.3 Methods and materials for containment and clean up** Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel. Place in a suitable, closed container for disposal.
- 6.4 Specific end use(s)** Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

Section 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid contact with skin and eyes and clothing. Avoid Inhalation of vapor or mist. Keep away from sources of ignition-No Smoking. Take measures to prevent the buildup of electrostatic charge.
- 7.2 Conditions for Safe storage** Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Hygroscopic
- 7.3 Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters:

Component	CAS-No.	Value	Control Parameters	Basis	
Ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)	
		Remark: <i>Upper Respiratory Tract Irritation.</i>			
		<i>Confirmed animal carcinogen with unknown relevance to humans</i>			
		TWA	1,000 ppm 1,900 mg/m ³	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contamination	
The value in mg/m ³ is approximate		TWA	1,000 ppm 1,900 mg/m ³	USA. NIOSH Recommended Exposure Limits	

8.2 Exposure Controls

Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practices.
Wash hands immediately after handling the product; before breaks and at the end of the day.

Personal protective equipment

These recommendations are only advisory and must be evaluated by an Industrial Hygienist and Safety Officer familiar with the specific situation or anticipated use by our customers. It should in no way be construed as offering an approval for any specific use scenario.

Eye/face protection	Wear appropriate, tightly sealed safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin protection	Wear chemically resistant gloves when handling this product. The glove is to be impermeable and resistant to the product. Do to missing testing data no specific recommendations to the gloves can be given for this product. Selection of glove material should be based on consideration of the penetration times, and rates of degradation. Check gloves before use. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.
Body protection	Impervious clothing protecting against chemicals, 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	Where risk assessment shows air purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate governmental standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	Pale yellow to orange liquid
b	Odor	Citrus, Alcoholic
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	No data available
f	Boiling Point	80°C
g	Flash Point	54.4°C closed cup
h	Ignition temperature	200°C
i	Evaporation Rate	No data available
j	Flammability (Solid, Gas)	No data available
k	Upper/lower Flammability Limit	Lower: 3.5 Vol. % Upper: 15.0 Vol. %
l	Vapor pressure	59hPa (44 mm Hg)
m	Vapor density	No data available
n	Relative density at 25°C	1.395-1.420
o	Solubility	Partly soluble in water, soluble in most organic solvents
p	Partition coefficient: n-octanol/water	No data available
q	Auto-ignition Temp.	Product is not self igniting
r	Decomposition Temp.	No data available
s	Viscosity	No data available
t	Explosive properties	No data available
v	Oxidizing properties	No data available
w	Organic Content	Organic solvents 50% VOC content 50%

9.2 Other Safety Information No further relevant information available

Section 10: STABILITY AND REACTIVITY

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of Hazardous reactions	No data available
10.4	Conditions to avoid	Heat, Flames, Sparks
10.5	Incompatible materials	No data available
10.6	Hazardous decomposition products	No data available
10.7	Further Information	No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral –Mouse

>41,750 mg/kg

Remarks: Behavioral: Excitement. Diarrhea Skin and Appendages: Other: Hair

LC50-Inhalation

No data available

LD50-Dermal –Rabbit

>4,193 mg/kg

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	No data available

Carcinogenicity

IARC 64-17-5 Ethanol

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.

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

Reproductive toxicity

No components of this product are known to cause Reproductive Toxicity for males or females

Specific target organ toxicity-single exposure (GHS)

Inhalation: May cause respiratory irritation

Specific target organ toxicity-repeated exposures (GHS)

No data available

Aspiration Hazards

No data available

General Note:

Water hazard class 2 (Self assessment): Hazardous for water. Do not allow product to reach ground water or sewage system. Danger to drinking water if even small quantities leak into ground water.

Synergistic effect RTECS:

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

No data available

Not available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6 Other adverse effects	No data available

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product:

According to local regulations

Packaging

According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)
 Proper shipping name: Ethanol solutions
 Marine Pollutant: No
 Quantity Limits: Aircraft / rail: 5Kg
 On cargo aircraft only: 50Kg

IMDG
 Proper shipping name: Ethanol Solutions (Ethyl Alcohol Solutions)
 Marine Pollutant: No

IATA
 Proper shipping name: Ethanol Solutions (Ethyl Alcohol Solutions)

Section 15: REGULATORY INFORMATION

Reach No. A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards Fire Hazard, Acute health hazard

Massachusetts Right to Know components Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

Pennsylvania Right to Know components Decanal CAS# 112-31-2 Rev. Date:
Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

New Jersey Right to Know components Decanal CAS# 112-31-2 Rev. Date:
Ethanol CAS# 64-17-5 Rev. Date: 3/1/2007

California Prop. 65 components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

R11= Highly Flammable
 R51/53= Toxic to aquatic organisms, may cause long term adverse effects in the environment

HMIS Rating

Health hazard 2
 Chronic Health Hazard*
 Flammability 2
 Physical Hazard 0

Safety Data Sheet

Further 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.

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