Safety Data Sheet

The Natural Choice for Flavor and Fragrance Ingredients

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	**Trans-2-Hexenoic Acid, Natural**
Product Number	0316900
CAS-No.	13419-69-7

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 (OSHA HCS)
Skin corrosion/irritation (Category 1C)
Serious eye damage/eye irritation (Category 1)

2.2 GHS Label Elements, Including precautionary statements

Pictogram or written description

Signal word **Danger**

Hazard Statement(s)

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

Precautionary statement(s)

P260	Do not breathe dust or mist
P264	Wash skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 HNOC (Hazards not otherwise classified or not covered by GHS None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization	Natural Product
Synonyms	trans-Hex-2-enoic acid
Formula	$C_6H_{10}O_2$
Molecular Weight	114.14 g/mol
CAS-No	13419-69-7
EC-No.	236-528-5

Hazardous Components

Component	Classification	Concentration
trans-Hex-2-enoic acid	Skin Corrosion 1B; Eye Damage 1; H314; H318	<= 100%

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation	Provide fresh air, Consult a physician
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice. Continue rinsing eyes during transport to hospital
Ingestion	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending 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 — Use water spray, alcohol resistant foam, dry chemical or carbon dioxide

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

Further information — No data available

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures — Use personal protective equipment. Avoid dust formation. Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

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**	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4	**Ventilate area**	After clean up, wash spill area and ventilate the area well

Section 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
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.
7.3	Specific End use(s)	See section 1.2

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters: Contains no substances with workplace control parameters

8.2 Exposure Controls

Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practices
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.**
Eye/face protection	Face shield and safety glasses. Use NIOSH tested and approved equipment.
Skin protection	Wear chemically resistant gloves of Nitrile rubber. Use proper glove removal technique to avoid skin contact with skin.
Body protection	Complete suite protecting against chemicals, made of flame retardant antistatic material 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 particle respirator type with respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a NIOSH approved full face supplied air respirator.
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	Colorless crystalline needles
b	Color	Colorless, white to pale yellow
c	Odor	Powerful, fruity, sweet, herbal
d	Odor Threshold	No data available
e	pH	No data available
f	Melting Point	28-35°C
g	Boiling Point	217°C (423°F) - lit
h	Flash Point	110°C (235°F) – Closed cup
i	Evaporation Rate	No data available
j	Flammability (Solid)	Combustible IIIB estimated.
k	Upper/lower Flammability Limit	No data available
l	Vapor pressure	No data available
m	Vapor density	No data available
n	Specific Gravity @ 25°C:	0.965 g/mL
o	Solubility	No data available
p	Auto-ignition Temp.	No data available
q	Decomposition Temp,	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available

9.2 Other Safety Information No data 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**	No data available
10.5	**Incompatible materials**	Bases, Oxidizing agents, Reducing agents
10.6	**Hazardous decomposition products**	Hazardous decomposition products formed under fire conditions. - Carbon oxides
10.7	**Further Information**	No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	No data available
LD50-Oral	No data available
LC50-Inhalation	No data available
LD50-Dermal	No data available
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	No component of this product, present 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.
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 data available
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Potential Health effects	
Signs and Symptoms of Exposure	Cough, Shortness of breath, Headache, Nausea, Vomiting
Synergistic effects	No data available
RTECS:	No data 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**	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)	UN 3261 Class 8 Packing Group III
Proper shipping name	Corrosive solid, acidic, organic, n.o.s. (trans-Hex-2-enoic acid)
Reportable Quantity (RQ)	No
Marine pollutant	No
Poison Inhalation Hazard	No
IMDG	UN 3261 Class 8 Packing Group III
Proper shipping name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (trans-hex-2-enoic acid) EMS-No. F-A, S-B
Marine pollutant	No
IATA	UN 3261 Class 8 Packing Group III
Proper shipping name	Corrosive solid, acidic, organic, n.o.s. (trans-Hex-2-enoic acid)

Section 15: REGULATORY INFORMATION

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	Acute Health Hazard		
OSHA Hazards	Target Organ Effect, Irritant		
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know components	Trans-Hex-2-enoic acid	CAS# 13419-69-7	Rev. Date:
New Jersey Right to Know components	Trans-Hex-2-enoic acid	CAS# 13419-69-7	Rev. Date:
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

Full text of H-Statements referred to under section 2 and 3

Eye Dam.	Serious eye damage
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
Skin Corr.	Skin corrosion

HMIS Rating

Health hazard	3
Chronic Health Hazard	
Flammability	1
Physical Hazard	0

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