Safety Data Sheet

The Natural Choice for Flavor and Fragrance Ingredients

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name	**2,6-Nonadienal 5% in Triacetin, Natural**
Product Number	**0337705**
CAS-No.	557-48-2/102-76-1

1.2 Product Recommended Use **Flavorings**

1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA
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): Acute toxicity, Oral (Category 4)

2.2 GHS Label Elements, Including precautionary statements

Pictogram

Signal Word: Warning

Hazard Statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Eye irritation
H335	Specific target organ toxicity-Single exposure (Category 3), Respiratory system

Precautionary Statement(s)

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

	breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
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 Mixture

Synonym: Cucumber aldehyde/Glyceryl triacetate

Formula: $C_9H_{14}O$

Molecular Weight: 138.21 g/mol

CAS-No: 557-48-2/102-76-1

Hazardous Components

Component	Classification	Concentration
2,6-Nonadienal Triacetin	Acute Toxicity, Oral (4), H302 Skin irritation (2), H315 Eye irritation (2A), H319 Specific target organ toxicity-Single exposure (3), Respiratory system, H335	~ 5% ~ 95%

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; keep at rest and at a comfortable position to breathe

Contact with skin: Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water.

Contact with eyes: Flush eyes with water as a precaution.

Ingestion: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

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	Nature of decomposition products not known
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	No data available

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Avoid breathing vapors, mist or gas
6.2 Environment precautions	Do not allow to enter drains or sewage system.
6.3 Methods and materials for containment and clean up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers 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**	Normal measures for preventive fire protection.
7.2 **Conditions for Safe storage**	Keep container tightly closed in a dry, cool and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage.
7.3 **Specific End use(s)**	Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure Controls

Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.
Personal protective equipment	**These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.**
Eye/face protection	Safety glasses. 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. 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	Complete suit 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 faced respirator with multi -purpose combination (US) or type ABEK (EN14387) respirator cartridges as a backup 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 government standards such as NIOSH (US) or CEN (EU)
Control of environmental exposure	Do not let product enter drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a	Appearance	Liquid-oily Colorless to pale yellow
b	Odor	Slight fat odor
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	N/A
f	Boiling Point	258-259 °C
g	Flash Point	138°C closed cup
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper Explosion Limit: 7.73% (V) Lower Explosion Limit: 1.05% (V)
k	Vapor pressure	0.0033hPa at 25°C
l	Vapor density	7.53 (Air=1.0)
m	Relative density @25°C	1.132-1.142
n	Solubility	Soluble in alcohol, ether and organic solvents
o	Partition coefficient: n-octanol/water	log Pow: 0.25
p	Auto-ignition Temp.	433°C
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	Strong oxidizing agents

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

LC50-Oral –Rat (male & female)	>2,000 mg/kg OECD Test Guideline 401
LC50 Inhalation-Rat (male & female)	>1,721 mg/l 4h OECD Test Guideline 403
LD50-Dermal-Rabbit	>2,000 mg/kg
Skin corrosion/irritation	Rabbit: No skin irritation – 24 hr OECD Test Guideline 404
Serious eye damage/eye irritation	Rabbit: No eye irritation OECD Test Guideline 405
Respiratory or skin sensitization	No data available
Germ Cell mutagenicity	Ames Test S. Typhimurium Results: Negative
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
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:	AK3675000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

To Fish: LC50- Semi-Static Test: Oryzias latipes >100 mg/l 96hr
OECD Test Guideline 203
To Daphnia and other aquatic invertebrates
EC-50-Semi-Static Test: Daphnia magna (water flea) 380mg/l 48hr
To Algae: EC50- Selenastrum capricornutum (green algae) >940 mg/l 72 hr

To Bacteria: NOEC- Pseudomonas putida >1,088 mg/l 18hr

12.2	**Persistence and degradability**	Biodegradability:
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)	NA-Number: 1993; Class: NONE; Packing group: III (2E,6Z)-Nona-2,6-dien-1-al Triacetin Solution
IMDG	Not a dangerous goods
IATA	Not a dangerous goods

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	No SARA Hazards
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right to Know components	Triacetin CAS# 102-76-1 Rev. Date: (2E,6Z)-Nona-2,6-dien-1-al; CAS# 557-48-2; Rev. Date:
New Jersey Right to Know components	Triacetin CAS# 102-76-1 Rev. Date: (2E,6Z)-Nona-2,6-dien-1-al; CAS# 557-48-2; Rev. Date:
California Prop. 65 components	This product does not contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard	1
Chronic Health Hazard	
Flammability	1
Physical Hazard	0

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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.

Issued by:	**Contact Person:**
Aurochemicals	Deo N. Persaud
7 Nicoll Street	Revised Date: 02/12/2021
Washingtonville, NY 10992 USA	