



NEWMIND
47 W. Polk St. STE 100-241
Chicago, IL 60605

newmind@newmind.com
www.newmind.com

CERTIFICATE OF ANALYSIS

Fenozolone
(5-Phenyl-2-(ethylamino)-4-oxazolidone)

Material Lot #: 20180115 Manufacture Date: 01/15/2018
Country of Origin: China Retesting Date: 03/08/2021

| Analysis | Claim | Result |
|------------|--------|-----------|
| Fenozolone | >98.0% | 101 +/-1% |

| Test | Claim | Result |
|----------------|--|----------|
| Appearance | White Solid | Conforms |
| Identification | Proton NMR spectrum conforms to structure. | Conforms |
| Assay | >98% by HNMR | >98% |

Fenozolone should be stored at or below room temperature in a tightly sealed durable container. Fenozolone should be protected from excess heat, direct sunlight, excess humidity and moisture. Fenozolone has a stable shelf life of 3 years from the date of testing when properly stored.



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| Product Name | Fenozolone | Product Lot Number | 20180115 |
|--------------|------------|--------------------|----------|
| Report Date | 03/09/18 | Laboratory # | 9911 |

| Test | Method | Result |
|----------------|------------------|-----------------------|
| Identification | Proton NMR | Conforms to structure |
| Identification | Carbon 13 NMR | Conforms to structure |
| Lead | ICP-MS USP <730> | 0.067 ppm |
| Arsenic | ICP-MS USP <730> | <0.001 ppm |
| Cadmium | ICP-MS USP <730> | 0.044 ppm |
| Mercury | ICP-MS USP <730> | 0.296 ppm |

Collin Thomas
Laboratory Manager

03/09/2018 03/09/18
Date

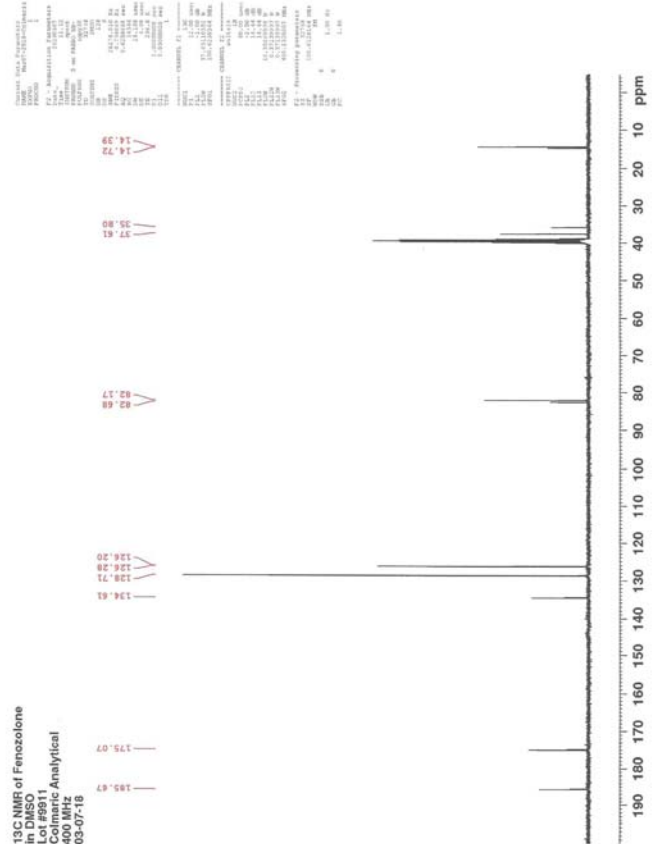
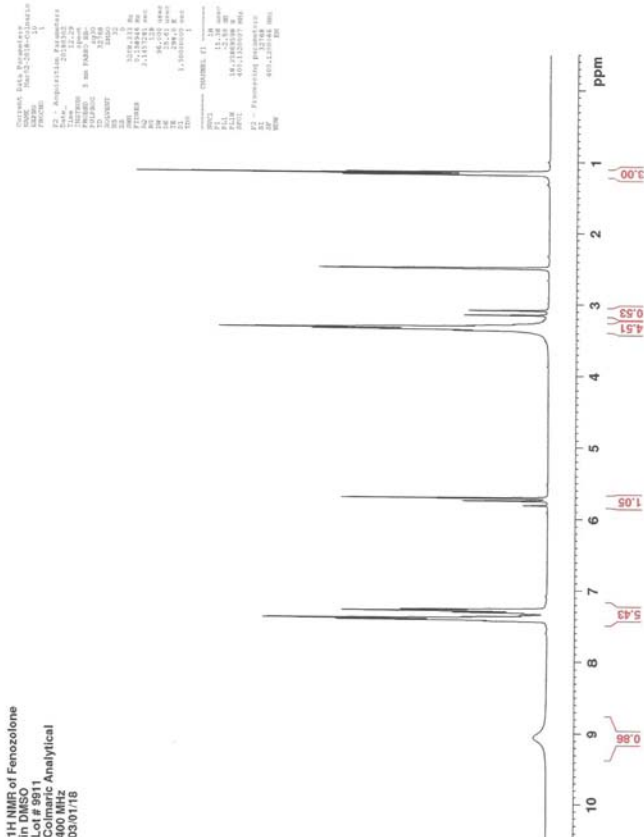


Figure 3 – Typical Chromatogram for the ca. 100 ppm Fenozolone standard

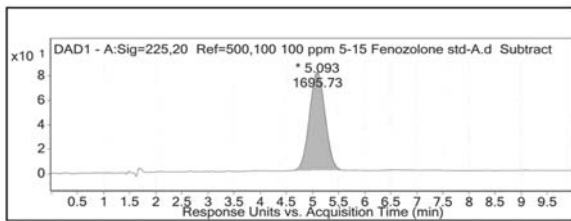
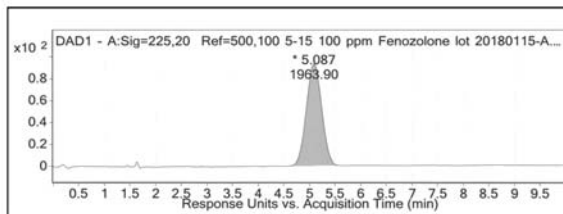


Figure 6 – Typical Chromatogram of Fenozolone lot #20180115 (ca. 100 ppm solution)



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

| | |
|---------------|--|
| Chemical name | 2-(ethylamino)-5-phenyl-1,3-oxazol-4-one |
| Trade name | Fenozolone |
| Product # | NM_15302-16-6_FENOZOLONE |
| CAS No | 15302-16-6 |

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses advised against:
 To be used only for scientific research and development.

Uses advised against:
 Not for use in humans or animals.

1.3 Details of the supplier of the safety data sheet:

Supplier:

| | |
|----------------------|--|
| Name: | Synaptent LLC |
| Address: | 47 W Polk St #100-241 Chicago, IL 60605 |
| Information contact: | +1 888-679-6278 |
| E-Mail : | synaptent@synaptent.com |

1.4 EMERGENCY TELEPHONE NUMBER:

Emergency# +1 888-679-6278 between 0900-1800 (UTC-6)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP] and US OSHA 1910.1200
 Not classified as a hazardous substance or mixture

Additional information:
 None

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP/GHS]

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Hazard pictograms



GHS07

Signal word:
Warning

Hazard statements:
H302 Harmful if swallowed. Reported in literature as a psychostimulant.

Precautionary statements:
P264 Wash hands thoroughly after handling.
P301+P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

2.3 Other hazards

No Data Available

SECTION 3. Composition/information on ingredients

3.1 Substances

Chemical name: 2-(ethylamino)-5-phenyl-1,3-oxazol-4-one
 Trade name: Fenozolone
 Molecular Formula: C₁₁H₁₂N₂O₂
 CAS No: 655-05-0
 EC No:
 Purity: 98%
 Synonyms: Ordinator, 15302-16-6, Fenozolonum, Fenozolona, LD 3394, Phenozolone, 5-Phenyl-2-ethylamino-4-oxazolinone, 5-Phenyl-2-(ethylamino)-4-oxazolidone

3.2 Mixtures

not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
 If medical attention is required, show this safety data sheet to the doctor.

Following inhalation:
 If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

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Following skin contact:

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

Following eye contact:

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

Following ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

Self-protection of the first aider:

No data available.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (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, Nitrogen oxides

5.3 Advice for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Additional information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Aerosol and dust generation prevention

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep in dry place.

7.3 Specific end uses

For scientific research and development only. Not for use in humans or animals.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no components with established occupational exposure limits.

8.2 Exposure controls

Appropriate engineering controls:

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

Personal protective equipment:

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

Eye / Face protection:

Safety goggles or face shield. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

Skin / Hand protection:

Hand protection:

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the

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S) Explosive Properties
No data available

T) Oxidizing Properties
No data available

9.2 Other 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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| S | Effect dose / concentration | Value | Species | Method | Symptoms / delayed effects | Remark |
|---------------------------------------|-----------------------------|-----------|---------|--------|----------------------------|--------|
| Acute oral toxicity | LD50 | 425 mg/kg | Mouse | oral. | Stimulation | |
| Acute dermal toxicity | No data available | | | | | |
| Acute inhalative toxicity (gas) | No data available | | | | | |
| Acute inhalative toxicity (vapour) | No data available | | | | | |
| Acute inhalative toxicity (dust/mist) | No data available | | | | | |

Skin corrosion/irritation

No data available

Eye damage/irritation

No data available

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outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

Gloves used for incidental exposures (splash protection) should be designated as "chemical resistant" by EU standard EN 374 with the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.

Gloves used for prolonged direct exposure (immersion) should be designated "chemical resistant" as per EN 734 with the resistance codes corresponding to the anticipated use of the material.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

Body protection:

Fire resistant (Nomex) lab coat or coveralls.

Respiratory protection:

Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|--|
| A) Appearance Off-White Solid | B) Odor Characteristic odor |
| C) Odor Threshold No data available | D) pH No data available |
| E) Melting Point/Freezing Point 148 °C | F) Initial Boiling Point/Boiling Range 336.9 ±45.0 °C (Predicted) |
| G) Flash point 157.6 ±28.7 °C (Predicted) | H) Evaporation Rate No data available |
| I) Flammability (Solid/Gas) No data available | J) Upper/Lower Flammability/Explosive Limits No data available |
| K) Vapor Pressure No data available | L) Vapor Density No data available |
| M) Relative Density No data available | N) Solubility No data available |
| O) Partition Coefficient No data available | P) Auto-Ignition Temperature No data available |
| Q) Decomposition Temperature No data available | R) Viscosity No data available |

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Sensitisation to the respiratory tract/skin

No data available

Sensitisation to the respiratory tract

No data available

Skin sensitisation

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No data available

Aspiration hazard

No data available

Potential health effects and routes of exposure

Inhalation:

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion:

Harmful if swallowed. Reported in literature as a psychostimulant.

Skin:

May be harmful if absorbed through skin. May cause skin irritation.

Eyes:

May cause eye irritation.

Signs and Symptoms of Exposure

Reported in literature as a psychostimulant. To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

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

No data available.

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12.6 Other adverse effects:
No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

A) Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

B) Contaminated Packaging

Dispose of as above.

C) Other Considerations

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

SECTION 14: Transport information

| | Land transport (DOT) | Inland waterway transport (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---------------------------------|----------------------|---------------------------------|----------------------|------------------------------------|
| 14.1 UN No. | N/A | N/A | N/A | N/A |
| 14.2 UN Proper shipping name | Not dangerous goods | Not dangerous goods | Not dangerous goods | Not dangerous goods |
| 14.3 Transport hazard class(es) | N/A | N/A | N/A | N/A |
| Hazard label(s) | | | | |
| 14.4 Packing group | N/A | N/A | N/A | N/A |
| 14.5 Environmental hazards | None | None | None | None |

14.6 Special precautions for user

None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

A) Canada

DSL/NDSL Status: This product is not listed on the Canadian DSL/NDSL.

B) United States

TSCA Status: This product is not listed on the US EPA TSCA.

C) European Union

ECHA Status: This product is not registered with the EU ECHA.

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15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1 Indication of changes

Original Publication Date: 4/3/2018

16.2 Abbreviations and acronyms

LD50 Median lethal dose of a substance required to kill 50% of a test population.

16.3 Further Information

Copyright 2018, Synaptent LLC. The above information is believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.

Caution: Product has not been fully validated for medical applications. For research use only!