

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 07/30/2020

Reviewed on 07/30/2020

1 Identification

- **Product Identifier**
- **Trade Name: Inhibitor Products**
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** No further relevant information available.
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Florikan ESA, LLC
6801 Energy Ct. Suite 100
Sarasota, FL 34234
Ph: 941-379-4048 ext 332
Fax: 941-377-3633
Email product info: Doug Cabe; dcabe@florikan.com
- **Emergency telephone number:** Chemtrec 1-800-424-9300 or outside USA 1-703-527-3887

www.Florikan.com

2 Hazard(s) Identification

- **Classification of the substance or mixture:** Non-Regulated Material
- **Label elements:**
- **Hazard pictograms:** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard-determining components of labeling:**
N-methyl-2-pyrrolidone (NMP)
- **Hazard statements:** Non-Regulated Material
- **Unknown acute toxicity:**
This value refers to knowledge of known, established toxicological or ecotoxicological values.
0 % of the mixture consists of component(s) of unknown toxicity.
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 0
Physical Hazard = 0

- **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with non-hazardous additions.

Dangerous Components:

CAS: 57-13-6 RTECS: YR 6250000	Urea	≥85%
CAS: 872-50-4 RTECS: UY 5790000	N-methyl-2-pyrrolidone (NMP) ⚠ Repr. 1B, H360; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤2.5%

(Contd. on page 2)

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OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

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Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

Description of first aid measures

General information: If symptoms persist, call a physician.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: If skin irritation occurs, consult a doctor.

After eye contact:

If eye irritation occurs, consult a doctor.

Rinse opened eye for several minutes under running water.

After swallowing: If swallowed and symptoms occur, consult a doctor.

Information for doctor

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: No further relevant information.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Not required.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to section 13.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

PAC-1:

57-13-6	Urea	30 mg/m ³
461-58-5	Cyanoguanidine	61 mg/m ³
872-50-4	N-methyl-2-pyrrolidone (NMP)	30 ppm
57-55-6	Propylene Glycol	30 mg/m ³
9003-11-6	Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)	6.9 mg/m ³

PAC-2:

57-13-6	Urea	280 mg/m ³
461-58-5	Cyanoguanidine	680 mg/m ³
872-50-4	N-methyl-2-pyrrolidone (NMP)	32 ppm

(Contd. on page 3)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

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Trade Name: Inhibitor Products

57-55-6	Propylene Glycol	1,300 mg/m ³
9003-11-6	Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)	76 mg/m ³
· PAC-3:		
57-13-6	Urea	1,700 mg/m ³
461-58-5	Cyanoguanidine	4,000 mg/m ³
872-50-4	N-methyl-2-pyrrolidone (NMP)	190 ppm
57-55-6	Propylene Glycol	7,900 mg/m ³
9003-11-6	Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol)	460 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:** Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep protective respiratory device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**

· Components with occupational exposure limits:

57-13-6 Urea

WEEL Long-term value: 10 mg/m³

872-50-4 N-methyl-2-pyrrolidone (NMP)

TLV BEI

WEEL Long-term value: 10 ppm
Skin

· Ingredients with biological limit values:

872-50-4 N-methyl-2-pyrrolidone (NMP)

BEI 100 mg/L
urine
end of shift, after three consecutive days
5-Hydroxy-N-methyl-2-pyrrolidone
OSHA: biomarker for possible worker exposure

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
- **Breathing equipment:** Not required.

(Contd. on page 4)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 07/30/2020

Reviewed on 07/30/2020

Trade Name: Inhibitor Products

- **Protection of hands:** Not required.
- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:** Not required.
- **Limitation and supervision of exposure into the environment:** None

* 9 Physical and Chemical Properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:

Granulate

Color:

Pink

· Odor:

Slight ammonia

· Odor threshold:

Not determined.

· pH-value:

Not determined.

· Change in condition

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

Not determined.

· Flash point:

None

· Flammability (solid, gaseous):

Not determined.

· Ignition temperature:

Not applicable

· Decomposition temperature:

Not determined.

· Auto igniting:

Product is not self-igniting.

· Danger of explosion:

Product does not present an explosion hazard.

· Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

· Vapor pressure:

Not applicable.

· Density @ 20 °C (68 °F):

1.3104 g/cm³ (10.9353 lbs/gal)

· Bulk density:

≥733.8-≤767.6 kg/m³

· Relative density:

Not determined.

· Vapor density:

Not applicable.

· Evaporation rate:

Not applicable.

· Solubility in / Miscibility with:

Water:

Soluble.

· Partition coefficient (n-octanol/water):

Not determined.

· Viscosity:

Dynamic:

Not applicable.

Kinematic:

Not applicable.

· Solvent content:

Organic solvents:

0.8 %

VOC content:

0.76 %

· Other information:

No further relevant information available.

(Contd. on page 5)

Safety Data Sheet (SDS)

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Issue date 07/30/2020

Reviewed on 07/30/2020

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10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:**
Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

57-13-6 Urea

Oral	LD50	8,471 mg/kg (Rat)
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872-50-4 N-methyl-2-pyrrolidone (NMP)

Oral	LD50	3,914 mg/kg (Rat)
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Dermal	LD50	8,000 mg/kg (Rabbit)
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- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

12 Ecological Information

- **Toxicity:**

- **Aquatic toxicity:**

57-13-6 Urea

EC50	>10,000 mg/l (Daphnia)
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872-50-4 N-methyl-2-pyrrolidone (NMP)

EC50	1.23-1.5 mg/l (Water flea)
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- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.

(Contd. on page 6)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 07/30/2020

Reviewed on 07/30/2020

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· **Additional ecological information:**

· **General notes:**

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packaging**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport Information

· **UN-Number:**

· **DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

· **UN proper shipping name:**

· **DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

· **Transport hazard class(es):**

· **DOT, ADR/ADN, ADN, IMDG, IATA**

· **Class:**

Non-Regulated Material

· **Packing group:**

· **DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

· **Environmental hazards:**

Not applicable.

· **Special precautions for user:**

Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable.

· **UN "Model Regulation":**

Non-Regulated Material

15 Regulatory Information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

· **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

872-50-4 N-methyl-2-pyrrolidone (NMP)

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients are listed.

(Contd. on page 7)

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· California Proposition 65:

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

872-50-4 N-methyl-2-pyrrolidone (NMP)

· New Jersey Right-to-Know List:

872-50-4 N-methyl-2-pyrrolidone (NMP)

57-55-6 Propylene Glycol

· New Jersey Special Hazardous Substance List:

872-50-4 N-methyl-2-pyrrolidone (NMP)

TE, F2

· Pennsylvania Right-to-Know List:

872-50-4 N-methyl-2-pyrrolidone (NMP)

57-55-6 Propylene Glycol

· Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

· Carcinogenic categories:

· EPA (Environmental Protection Agency):

57-13-6 Urea

II

· TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· GHS label elements Non-Regulated Material

· Hazard pictograms: Non-Regulated Material

· Signal word: Non-Regulated Material

· Hazard-determining components of labeling:

N-methyl-2-pyrrolidone (NMP)

· Hazard statements: Non-Regulated Material

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of last revision/ revision number: 07/30/2020 / 1

· Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Contd. on page 8)

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IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· *** Data compared to the previous version altered.**

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