

# **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 04-Mar-2019 Revision Date 11-Aug-2020 Revision Number 1

1. Identification

**Product identifier** 

Product Name NYCAST® 6PA, NYCAST® 6PA NYLOIL®, NYCAST® 6PA FG, NYCAST® 6PA

NYLOIL® FG, NYCAST® 6PA CP 6/12, NYCAST® 6PA SLX, NYCAST® 6PA Wax,

NYCAST® 6PA NYLOIL® MDX

Other means of identification

Product Code(s) CPNA; CPNY; DFGR; FGBC; FGBL; FGCR; FGOR; FGNX; FGRD; FGWX; FGYW; FLPU;

NYBK; NYGN; NYNA; NYOR; NYRD; NYYW; OMBK; OMGY; SLPU; WXNA

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Industrial

Restrictions on use No information available

Details of the supplier of the safety data sheet

**Supplier Address** 

Cast Nylons Limited 4300 Hamann Parkway Willoughby, OH 44094 T: 440-269-2300

Emergency telephone number

Emergency telephone 440-269-2300

# 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Acute toxicity - Oral                            | Category 4  |
|--|-------------|
| Acute toxicity - Dermal                          | Category 4  |
| Acute toxicity - Inhalation (Dusts/Mists)        | Category 4  |
| Skin corrosion/irritation                        | Category 2  |
| Serious eye damage/eye irritation                | Category 2A |
| Specific target organ toxicity (single exposure) | Category 3  |

### Hazards not otherwise classified (HNOC)

Not applicable.

Label elements

#### Warning

### **Hazard statements**

Harmful if swallowed.

Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.



### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions in this document)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of water and soap

Call a POISON CENTER or doctor if you feel unwell

Take off contaminated clothing and wash it before reuse

If skin irritation occurs: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

# **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

Harmful to aquatic life with long lasting effects.

16.435 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

25.415 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

30.415 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

# 3. Composition/information on ingredients

### **Substance**

Not applicable.

#### Mixture

| Chemical name       | CAS No   | Weight-% | Trade secret |
|---------------------|----------|----------|--------------|
| .epsilonCaprolactam | 105-60-2 | 92-98    | *            |

| Molybdenum (IV) sulfide | 1317-33-5 | 0-<3 | * |
|-------------------------|-----------|------|---|

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

#### Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Get medical advice/attention. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention

immediately.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. IF

IN EYES:

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms

persist, call a physician. IF ON SKIN:

**Ingestion** IF SWALLOWED: Do NOT induce vomiting. Clean mouth with water and drink afterwards

plenty of water. Never give anything by mouth to an unconscious person. Get medical

attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid

breathing dust/fume/gas/mist/vapors/spray.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

### 5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media None known.

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment for

Firefighters should wear self-contained breathing apparatus and full firefighting turnout fire-fighters gear. Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

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from and upwind of spill/leak. Avoid generation of dust. Do not breathe dust.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. **Methods for containment** 

Pick up and transfer to properly labeled containers. Methods for cleaning up

# 7. Handling and storage

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Avoid breathing

vapors or mists.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep in a dry place. Keep away from Incompatible materials.

## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** 

| Chemical name           | ACGIH TLV                              | OSHA PEL                            | NIOSH                           |
|-------------------------|--|-------------------------------------|---------------------------------|
| .epsilonCaprolactam     | TWA: 5 mg/m <sup>3</sup> inhalable     | (vacated) TWA: 1 mg/m <sup>3</sup>  | TWA: 1 mg/m <sup>3</sup> dust   |
| 105-60-2                | fraction and vapor                     | dust                                | TWA: 0.22 ppm vapor             |
|                         |  | (vacated) TWA: 5 ppm vapor          | TWA: 1 mg/m <sup>3</sup> vapor  |
|                         |  | (vacated) TWA: 20 mg/m <sup>3</sup> | STEL: 3 mg/m <sup>3</sup> dust  |
|                         |  | vapor                               | STEL: 0.66 ppm vapor            |
|                         |  | (vacated) STEL: 3 mg/m <sup>3</sup> | STEL: 3 mg/m³ vapor             |
|                         |  | dust                                |                                 |
|                         |  | (vacated) STEL: 10 ppm              |                                 |
|                         | vapor                                  |                                     |                                 |
|                         | (vacated) STEL: 40 mg/m <sup>3</sup>   |                                     |                                 |
|                         |  | vapor                               |                                 |
| Molybdenum (IV) sulfide | TWA: 10 mg/m <sup>3</sup> Mo inhalable | TWA: 15 mg/m³ total dust            | IDLH: 5000 mg/m <sup>3</sup> Mo |
| 1317-33-5               | particulate matter                     | (vacated) TWA: 10 mg/m3 Mo          |                                 |
|                         | TWA: 3 mg/m³ Mo respirable             |                                     |                                 |
|                         | particulate matter                     |                                     |                                 |

### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Appropriate engineering controls

**Engineering controls** Showers

> Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection If respirable dusts are generated, respiratory protection may be needed.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Avoid breathing

dust/fume/gas/mist/vapors/spray.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** Solid (compressed)

**Physical state** Solid

Natural color Color None Odor

**Odor threshold** No data available

Property Values Remarks • Method

рH No data available None known

210.000030040742 - 238.000034046174 Melting point / freezing point

°C / 410.00003604889 -

460.400040855408 °F Boiling point / boiling range No data available

None known No data available Flash point None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available

Vapor pressure No data available None known Vapor density No data available None known

Relative density 1.15 - 1.17 Up to .? Water solubility TFA: HFIP Solubility(ies)

Partition coefficient No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known No data available None known **Dynamic viscosity** 

Other information

No information available. **Explosive properties** 

Oxidizing properties

Softening point

Molecular weight

VOC Content (%)

Liquid Density

Bulk density

No information available

# 10. Stability and reactivity

**Reactivity** None under normal use conditions.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

Conditions to avoid Temperatures above 210 °C / 410 °F.

**Incompatible materials** Strong acids. Strong oxidizing agents.

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide.

# 11. Toxicological information

### Information on likely routes of exposure

Product Information .

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. Harmful by inhalation. (based on components).

**Eye contact** Specific test data for the substance or mixture is not available. Irritating to eyes. Causes

serious eye irritation. (based on components).

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

**Acute toxicity** 

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral) 1,478.34 mg/kg ATEmix (dermal) 1,633.54 mg/kg ATEmix (inhalation-dust/mist) 1.67 mg/l

16.435 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 25.415 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

30.415 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information** 

| Chemical name           | Oral LD50          | Dermal LD50           | Inhalation LC50        |
|-------------------------|--------------------|-----------------------|------------------------|
| .epsilonCaprolactam     | = 1210 mg/kg (Rat) | = 1438 mg/kg (Rabbit) | = 8.16 mg/L (Rat) 4 h  |
| 105-60-2                |                    |                       | -                      |
| Molybdenum (IV) sulfide | -                  | -                     | > 2820 mg/m³ (Rat) 4 h |
| 1317-33-5               |                    |                       |                        |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

| Chemical name       | ACGIH | IARC    | NTP | OSHA |
|---------------------|-------|---------|-----|------|
| .epsilonCaprolactam | -     | Group 3 | =   | =    |
| 105-60-2            |       |         |     |      |

Reproductive toxicity No information available.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure**No information available.

Target organ effects Liver. Kidney. Respiratory system. Eyes. Skin. Central nervous system. Central Vascular

System (CVS).

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

| Chemical name       | Algae/aquatic plants  | Fish                  | Toxicity to    | Crustacea             |
|---------------------|-----------------------|-----------------------|----------------|-----------------------|
|                     |                       |                       | microorganisms |                       |
| .epsilonCaprolactam | EC50: =130mg/L (72h,  | LC50: =1400mg/L (96h, | -              | EC50: 828 - 2920mg/L  |
| 105-60-2            | Desmodesmus           | Pimephales promelas)  |                | (48h, Daphnia magna)  |
| ļ                   | subspicatus) EC50:    | LC50: =930mg/L (96h,  |                | EC50: >500mg/L (48h,  |
|                     | 4320 - 4800mg/L (72h, | Lepomis macrochirus)  |                | Daphnia magna Straus) |
| ļ                   | Pseudokirchneriella   |                       |                |                       |
|                     | subcapitata) EC50:    |                       |                |                       |
|                     | =160mg/L (96h,        |                       |                |                       |
| ļ                   | Desmodesmus           |                       |                |                       |
|                     | subspicatus)          |                       |                |                       |

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

**Component Information** 

| Chemical name       | Partition coefficient |
|---------------------|-----------------------|
| .epsilonCaprolactam | -0.02                 |
| 105-60-2            |                       |

Other adverse effects No information available.

# 13. Disposal considerations

#### Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# 14. Transport information

**DOT** Not regulated

IATA Not regulated

IMDG Not regulated

# 15. Regulatory information

## International Inventories

**TSCA** Contact supplier for inventory compliance status.

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations.

| Chemical name   | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| .epsilonCaprolactam<br>105-60-2   | X          | X             | X            |
| Molybdenum (IV) sulfide<br>1317-33-5  | -          | X             | -            |
| Phosphorodithioic acid,<br>O,O-di-C1-14-alkyl esters, zinc<br>salts<br>68649-42-3 | X          | -             | X            |

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. Other information

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and chemical

properties -

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Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Issuing Date 04-Mar-2019

**Revision Date** 11-Aug-2020

**Revision Note** SDS sections updated: 1.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**