

1. Identification

Product name: Nano Mold Coating HCF

Supplier: Nanoplas
2950 Prairie Street South West
Suite 900
Grandville, MI 49418
T (616)-452-3707

Emergency number: For Chemical Emergency Call INFOTRAC 24hr/day 7days/week
Within USA, Mexico and Canada: 800-535-5053 ID# 102222
Outside USA, Mexico and Canada: 1-352-323-3500 ID# 102222

Date of issue: 07/25/2019

2. Hazard(s) identification

Classification:

Physical hazards	Health hazards
Flammable liquids Category 2	Eye irritation Category 2A Specific target organ toxicity (single exposure) Category 3

GHS US labeling:

Danger!



CONTAINS: isopropanol

Hazard statements (GHS US)	Precautionary statements (GHS US)
H225 - Highly flammable liquid and vapour H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing vapors, mist. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection. P303+P361+P353 - If on skin (or hair): Take off

immediately all contaminated clothing. Rinse skin with water/shower
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
 P312 - Call a poison center or doctor if you feel unwell
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P337+P313 - If eye irritation persists: Get medical attention.
 P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO₂), dry extinguishing powder to extinguish.
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 P235 - Keep cool.
 P405 - Store locked up.
 P501 - Dispose of contents or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

3: Composition/Information on ingredients

Component	CAS-No.	Amount (%)
isopropanol	67-63-0	60-100

4. First-aid measures

Inhalation: Move the affected person to the fresh air. Get medical attention if symptoms occur.

Skin: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

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 attention.

Ingestion: Rinse mouth. Get medical advice/attention.

Symptoms/effects: Causes serious eye irritation. May cause drowsiness or dizziness.

Immediate medical attention and special treatment, if necessary: Not required.

5. Fire-fighting measures

Suitable extinguishing media: Dry chemical, CO₂, dry sand, or alcohol-resistant foam.

Unsuitable extinguishing media: None.

Fire hazard: Highly flammable liquid and vapour. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. On burning: release of carbon monoxide - carbon dioxide. Formaldehyde.

Special protective equipment and precautions for fire-fighters: Cool down the containers exposed to heat with a water spray. Self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate area. Wear suitable protective clothing. Avoid contact with eyes, skin and clothing.

Methods and material for containment and cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

7. Handling and storage

Precautions for safe handling: Wear personal protective equipment. Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapors. Ensure adequate ventilation. Use only outdoors or in a well-ventilated area. Flammable vapors may accumulate in the container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Use explosion-proof equipment. Ground/bond container and receiving equipment. Use only non-sparking tools. Wash hands with water and soap.

Storage conditions: Store in a cool, well-ventilated place. Keep container tightly closed. Store locked up.

8. Exposure controls/personal protection

Exposure guidelines:

isopropanol	980 mg/m ³ TWA OSHA PEL; 400 ppm TWA OSHA PEL; 200 ppm TWA ACGIH; 400 ppm STEL ACGIH;
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Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Use spark-/explosion proof appliances and lighting system.

Environmental exposure controls: Avoid release to the environment.

Personal protective equipment:

Hand protection: Wear suitable gloves

Eye protection: Chemical goggles or safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: No respiratory protection needed under normal use conditions. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and chemical properties

Appearance: Colorless liquid.

Physical state	: Liquid	Relative evaporation rate (butyl acetate=1)	: No data available
Color	: Colorless	Flammability (solid, gas)	: Not applicable.
Odor	: mild	Vapor pressure	: No data available
Odor threshold	: No data available	Relative vapor density at 20 °C	: No data available
pH	: No data available	Relative density	: 0.998
Melting point	: Not applicable	Solubility	: No data available
Freezing point	: No data available		
Boiling point	: > 82 °C		
Flash point	: 12 °C		

Log Pow : No data available
Auto-ignition temperature : 399 °C
Decomposition temperature : No data available
Viscosity, kinematic : 1.7 mm²/s
Viscosity, dynamic : No data available

Explosion limits : Lower explosive limit (LEL): 2 vol %
UEL: 13 vol %
Explosive properties : None.
Oxidizing properties : None.

No additional information available

10. Stability and reactivity

Reactivity: The product is non-reactive under normal conditions of use, storage and transport. Highly flammable liquid and vapour.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials : Keep away from oxidizers, strong acids and strong bases. Keep away from ignition sources (including static discharges).

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Inhalation: May cause minor irritation to the respiratory tract and to other mucous membranes.

Skin: May cause slight irritation to the skin.

Eyes: Causes serious eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms: None known.

Carcinogenicity: Not classified
isopropanol: IARC 3 - Not classifiable;
Germ cell mutagenicity: Not classified
Reproductive toxicity: Not classified
isopropanol: Not classified

Numerical measures of toxicity:

The following are the toxicity values for the components:

isopropanol: Oral rat LD50- 5.84 g/kg; Dermal rabbit LD50- 16.4 ml/kg; Inhalation rat LC50- 1666.66 ppm/1h

Skin corrosion/irritation Not classified

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitization Not classified

Specific target organ toxicity – single exposure Not classified

Specific target organ toxicity – repeated exposure Not classified

12. Ecological information

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Ecotoxicity:

isopropanol 10000 mg/L Fish LC50; 10000 mg/L Daphnia EC50

Persistence and degradability:

isopropanol: No data available
Readily biodegradable.

Bioaccumulative potential:

isopropanol: No data available
BCF Fish - 3; Log KOW0.05

Mobility in soil:

No data available

Other adverse effects:

No data available

13. Disposal considerations

Regional legislation (waste): Dispose of in accordance with applicable federal, state, and local regulations.

Additional information: Flammable vapors may accumulate in the container.

14. Transport information

Department of Transportation (DOT)

Proper Shipping Name (DOT) : Isopropanol
UN-No.(DOT) : UN1219
Class (DOT) : 3
Packing group (DOT) : II
Hazard labels (DOT) : Flammable liquid

Transport by sea

Proper Shipping Name (IMDG) : Isopropanol
UN-No. (IMDG) : UN1219
Class (IMDG) : 3
Packing group (IMDG) : II

Air transport

Proper Shipping Name (IATA) : Isopropanol
UN-No. (IATA) : UN1219
Class (IATA) : 3
Packing group (IATA) : II

15. Regulatory information

SARA Section 313 - Emission Reporting: Not subject to reporting requirements of the United States SARA Section 313

CERCLA Section 103:

This product is not subject to reporting under CERLCA. However, many states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA 302:

Not applicable

SARA Section 311/312 Hazard Classes: Refer to Section 2 for OSHA Hazard Classification.

California Proposition 65:

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

TSCA: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

INTERNATIONAL INVENTORIES

- Australia AICS:** All the components are listed.
- Canada DSL:** All the components are listed.
- China IECSC:** All the components are listed.
- EU EINECS:** All the components are listed.
- Japan ENCS:** All the components are listed.
- Korea KECL:** All the components are listed.
- New Zealand:** All the components are listed.
- Philippines PICCS:** All the components are listed.

16. Other information

Revision date : 07/25/2019

NFPA	
NFPA health hazard:	2
NFPA fire hazard:	3
NFPA reactivity:	0

HMIS Hazard Rating	
Health:	2
Flammability:	3
Physical:	0

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. The company listed in Section 1 shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.