

# SAFETY DATA SHEET.

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Version 1.01

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product name** MG-50 MOLD GUARD

**Recommended use of the chemical and restrictions on use**

**Product Type** Extremely flammable aerosol  
**Synonyms** None

**Supplier's details**

**Recommended Use** Dry Rust Preventative.  
**Uses advised against** No information available

**Manufacturer:**  
Nanoplas Inc.  
2950 Prairie St.  
Suite 900  
Grandville, MI 49418

**Emergency telephone number**  
**Chemical Emergency Phone Number** Chemtrec 1-800-424-9300  
**Company Emergency Phone Number** 616-452-3707

**2. HAZARDS IDENTIFICATION**

**Classification**

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

|  |                |
|--|----------------|
| Skin corrosion/irritation                          | Category 2     |
| Serious eye damage/eye irritation                  | Category 2A    |
| Reproductive Toxicity                              | Category 2     |
| Specific target organ toxicity (single exposure)   | Category 3     |
| Specific target organ toxicity (repeated exposure) | Category 2     |
| Aspiration toxicity                                | Category 1     |
| Flammable aerosols                                 | Category 1     |
| Gases under pressure                               | Compressed Gas |

**GHS Label elements, including precautionary statements**

**Emergency Overview**

**DANGER**

**Hazard Statements**

- Causes skin irritation
- Causes serious eye irritation
- Suspected of damaging fertility or the unborn child
- May cause respiratory irritation. May cause drowsiness or dizziness
- May cause damage to organs (Central Nervous System, Central Vascular System, Eyes, Kidney, Liver, Lungs, Respiratory System, and Skin) through prolonged or repeated exposure.
- May be fatal if swallowed and enters airways
- Extremely flammable aerosol
- Contains gas under pressure; may explode if heated



**Appearance** Clear

**Physical state** Aerosol

**Odor** Solvent

**Precautionary Statements - Prevention**

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Do not spray on an open flame or other ignition source
- Pressurized container: Do not pierce or burn, even after use

**Precautionary Statements - Response**

- If exposed or concerned: Get medical advice/attention
- Specific treatment (see first aid on this label)
- 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 soap and water.  
 Take off contaminated clothing and wash 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/physician if you feel unwell  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Do NOT induce vomiting

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None

**Other information**

• Toxic to aquatic life with long lasting effects

0.48521% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # 110-54-3, HEXANE, MAY BE SUBSTITUTED FOR CAS # 64742-49-0, COMMERCIAL HEXANES.

| Chemical Name              | CAS-No     | Weight %* |
|----------------------------|------------|-----------|
| PROPANE/ISOBUTANE/N-BUTANE | 68476-86-8 | 90-100    |
| HEXANE                     | 110-54-3   | 1-10      |

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

### 4. FIRST AID MEASURES

**First aid measures for different exposure routes**

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Avoid contact with eyes, skin, and clothing. Avoid breathing, vapors, mist, or gas.  |
| <b>Eye contact</b>    | In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical advice.   |
| <b>Skin contact</b>   | Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Get medical attention immediately if symptoms occur.                                    |
| <b>Inhalation</b>     | Move to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately. |
| <b>Ingestion</b>      | Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.                     |

**Most important symptoms/effects, acute and delayed**

**Main Symptoms** Causes skin and eye irritation. May cause respiratory irritation . May cause drowsiness or dizziness. Inhalation causing Central Nervous System effects. Ingestion causing lung damage.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

water fog. Dry chemical. Carbon dioxide (CO2). Cool containers / tanks with water spray.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

Flammable or extremely flammable aerosol. Container may burst in fire. Extremely flammable.

**Explosion Data**

**Sensitivity to Mechanical Impact** none.

**Sensitivity to Static Discharge** Yes.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use with adequate ventilation to keep the exposure levels below the OELS.

**Environmental precautions**

**Environmental precautions** Report spills as required by local and federal regulations.

**Methods and materials for containment and cleaning up**

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

**Methods for cleaning up** Contain liquid and collect with an inter,non-combustible material.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Avoid skin contact. Use with adequate ventilation. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.

**Conditions for safe storage, including any incompatibilities**

**Technical measures/Storage conditions** Keep container tightly closed in a dry and well-ventilated place.

**Incompatible products** Store away from strong oxidizers and acids.

**Aerosol Level** 3

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure Guidelines**

| Chemical Name                            | ACGIH TLV   | OSHA PEL   | NIOSH IDLH  |
|--|---|--|---|
| PROPANE/ISOBUTANE/N-BUTANE<br>68476-86-8 | 74-98-6: TWA: 1000 ppm<br>106-97-8: STEL: 1000 ppm<br>75-28-5: STEL: 1000 ppm                       | 74-98-6:TWA: 1000 ppm<br>TWA: 1800 mg/m <sup>3</sup><br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1800 mg/m <sup>3</sup><br>106-97-8: (vacated) TWA: 800 ppm<br>ppm<br>(vacated) TWA: 1900 mg/m <sup>3</sup> | 74-98-6:IDLH: 2100 ppm<br>TWA: 1000 ppm<br>TWA: 1800 mg/m <sup>3</sup><br>106-97-8:TWA: 800 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>75-28-5:TWA: 800 ppm<br>TWA: 1900 mg/m <sup>3</sup> |
| HEXANE<br>110-54-3                       | TWA: 50 ppm<br>Skin - potential significant contribution to overall exposure by the cutaneous route | TWA: 500 ppm TWA: 1800 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 180 mg/m <sup>3</sup>  | IDLH: 1100 ppm<br>TWA: 50 ppm<br>TWA: 180 mg/m <sup>3</sup>   |

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

NIOSH IDLH: Immediately Dangerous to Life or Health

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure controls

**Engineering Measures**

Ventilation systems. Use adequate ventilation to keep the exposure levels below the OELs.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection**

Safety glasses with side-shields.

**Skin and body protection**

Chemical resistant apron. Protective gloves.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical and chemical properties

**Physical state**

Aerosol

**Appearance**

Clear

**Odor**

Solvent

**Color**

amber

**Odor Threshold**

No information available

Property

Values

Remarks • Methods

**pH**

No information available

**Melting/freezing point**

No information available

**Boiling point/boiling range**

No information available

**Flash Point**

-104.4 °C / -156 °F

Based on propellant

**Evaporation rate**

No information available

**Flammability (solid, gas)**

No information available

**Flammability Limits in Air**

upper flammability limit

No information available

lower flammability limit

No information available

**Vapor pressure**

No information available

|  |                          |                |
|--|--------------------------|----------------|
| Vapor density                          | No information available |                |
| Specific Gravity                       | 0.575                    |                |
| Water solubility                       | Practically insoluble    |                |
| Partition coefficient: n-octanol/water | No information available |                |
| Autoignition temperature               | No information available | Not applicable |
| Decomposition temperature              | No information available |                |
| Viscosity                              | No information available |                |
| Explosive properties                   | No information available |                |

**Other information**

|                |       |
|----------------|-------|
| VOC Content(%) | 99.39 |
|----------------|-------|

**10. STABILITY AND REACTIVITY**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to Avoid**

Extremes of temperature and direct sunlight.

**Incompatible Materials**

Store away from strong oxidizers and acids.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

|                            |   |
|----------------------------|---|
| <b>Product Information</b> | Product does not present an acute toxicity hazard based on known information                                      |
| <b>Inhalation</b>          | Exposure to high vapour concentrations may cause nervous systems effects such as headache, nausea, and dizziness. |
| <b>Eye contact</b>         | Irritating to eyes.   |
| <b>Skin contact</b>        | Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.                             |
| <b>Ingestion</b>           | Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal.  |

**Component Information**

| Chemical Name      | LD50 Oral | LD50 Dermal             | LC50 Inhalation         |
|--------------------|-----------|-------------------------|-------------------------|
| HEXANE<br>110-54-3 | -         | = 3000 mg/kg ( Rabbit ) | = 48000 ppm ( Rat ) 4 h |

**Information on toxicological effects**

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. Causes skin irritation. May cause slight eye irritation. May cause respiratory system irritation. Prolonged or repeated exposure may cause dermatitis. Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal. |
|-----------------|---|

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

|  |  |
|--|--|
| <b>Skin corrosion/irritation damage/irritation</b>                 | Irritating to skin. <b>Eye</b>   |
| <b>Sensitization</b>   | Irritating to eyes.  |
| <b>Germ Cell Mutagenicity</b>                                      | No information available.  |
| <b>Carcinogenicity</b>   | No information available.  |
| <b>Reproductive toxicity</b>                                       | There are no known carcinogenic chemicals in this product.   |
| <b>Specific target organ systemic toxicity (single exposure)</b>   | Product is or contains a chemical which is a known or suspected reproductive hazard.   |
| <b>Specific target organ systemic toxicity (repeated exposure)</b> | May cause respiratory irritation. may cause drowsiness and dizziness.  |
| <b>Chronic toxicity</b>  | May cause damage to organs through prolonged or repeated exposure.   |
| <b>Target Organ Effects</b>  | Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. |
| <b>Aspiration hazard</b>   | Central nervous system, Eyes, Respiratory system, Skin, Peripheral Nervous System (PNS).<br>May be fatal if swallowed and enters airways.  |

**Numerical measures of toxicity - Product Information**

|   |   |
|---|---|
| <b>Unknown Acute Toxicity</b>   | 0.48521% of the mixture consists of ingredient(s) of unknown toxicity |
| <b>The following values are calculated based on chapter 3.1 of the GHS document .</b> |   |
| <b>ATEmix (dermal)</b>  | 92113 mg/kg   |
| <b>ATEmix (inhalation-gas)</b>  | 728014 mg/l   |

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

| Chemical Name                            | Toxicity to algae | Toxicity to fish  | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|--|-------------------|---|----------------------------|---|
| PROPANE/ISOBUTANE/N-BUTANE<br>68476-86-8 | -                 | -   | -                          | -   |
| HEXANE<br>110-54-3                       | -                 | 2.1 - 2.98 mg/L LC50<br>Pimephales promelas 96h<br>flow-through | -                          | -   |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

| Chemical Name                            | log Pow |
|--|---------|
| PROPANE/ISOBUTANE/N-BUTANE<br>68476-86-8 | 2.8     |

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment**

|                               |  |
|-------------------------------|--|
| <b>Waste Disposal Methods</b> | Dispose of in accordance with federal, state, and local regulations. |
| <b>Contaminated packaging</b> | Do not re-use empty containers.                                      |

**14. TRANSPORT INFORMATION**

**DOT Ground** CONSUMER COMMODITY ORM-D  
or  
LIMITED QUANTITY

**IATA** UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

**IMDG** UN1950, AEROSOLS, 2.1, LTD. QTY.

**15. REGULATORY INFORMATION**

**International Inventories**

| Chemical Name              | TSCA | DSL/NDSL | EINECS/ELI<br>NCS | ENCS       | IECSC | KECL | PICCS | AICS |
|----------------------------|------|----------|-------------------|------------|-------|------|-------|------|
| PROPANE/ISOBUTANE/N-BUTANE | X    | X        | X                 | Not listed | X     | X    | X     | X    |
| HEXANE                     | X    | X        | X                 | X          | X     | X    | X     | X    |

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- CHINA** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name     | CAS-No   | Weight %* | SARA 313 - Threshold Values % |
|-------------------|----------|-----------|-------------------------------|
| HEXANE - 110-54-3 | 110-54-3 | 1-10      | 1.0                           |

**SARA 311/312 Hazard Categories**

- Acute Health Hazard** Yes
- Chronic Health Hazard** Yes
- Fire Hazard** Yes
- Sudden Release of Pressure Hazard** Yes
- Reactive Hazard** no

**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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|---------------|--------------------------|------------------------------------|----|
|               |                          |                                    |    |



|                    |         |  |  |
|--------------------|---------|--|--|
| HEXANE<br>110-54-3 | 5000 lb |  | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
|--------------------|---------|--|--|

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any known Proposition 65 chemicals.

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

| Chemical Name      | New Jersey | Massachusetts | Pennsylvania |
|--------------------|------------|---------------|--------------|
| HEXANE<br>110-54-3 | X          | X             | X            |

EPA Pesticide Registration Number Not applicable

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**16. OTHER INFORMATION**

|                    |                  |                |                   |                                 |
|--------------------|------------------|----------------|-------------------|---------------------------------|
| <b><u>NFPA</u></b> | Health Hazard 2  | Flammability 4 | Instability 0     | Physical and chemical hazards - |
| <b><u>HMIS</u></b> | Health Hazard 2* | Flammability 4 | Physical Hazard 1 | Personal protection B           |

***Chronic Hazard Star Legend***                      *Chronic Health Hazard Repeated or prolonged exposure may cause central nervous system damage*

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**Revision Note**

No information available

**Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**