SECTION 1. IDENTIFICATION

Identification of the company: Clariant Corporation
4000 Monroe Road
Charlotte, NC, 28205
Telephone No.: +1 704 331 7000

Information of the substance/preparation:
Product Safety 1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: NIPAGIN M
Material number: 166901
CAS number: 99-76-3
Synonyms: Product has no synonyms
Chemical family: methyl-4-hydroxybenzoate

Primary product use: Personal Care Preservatives
Chemical family: methyl-4-hydroxybenzoate

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Eye irritation : Category 2B
Combustible dust : 

GHS Label element
Signal word : Warning
Hazard statements : H320 Causes eye irritation.
Precautionary statements : Prevention:
P264 Wash skin thoroughly after handling.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P243 Take precautionary measures against static discharge.
Response:
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 advice/attention.

Other hazards
None known.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl paraben</td>
<td>99-76-3</td>
<td>100</td>
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</table>

SECTION 4. FIRST AID MEASURES

General advice: Remove/Take off immediately all contaminated clothing. Get medical advice/attention if you feel unwell.

If inhaled: Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/attention. Never give anything by mouth to an unconscious person.

In case of skin contact: Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

In case of eye contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

If swallowed: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed: The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known.

Notes to physician: None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water spray jet
Alcohol-resistant foam

Unsuitable extinguishing media: Dry powder
Carbon dioxide (CO2)
High volume water jet

Specific hazards during firefighting: In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO2)

Emits toxic fumes under fire conditions. This product presents
no unusual fire or explosion hazards while sealed in a shipping container. During usage, if a dust cloud is generated, organic powders have the potential to be explosive with static spark or flame initiation.

Further information: Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

Special protective equipment for firefighters:
- Self-contained breathing apparatus
- Full protective suit

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
- Wear suitable protective clothing.
- Ensure adequate ventilation.
- Avoid dust formation.
- Avoid contact with skin and eyes.
- Wear proper protective equipment. Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Do not discharge into storm drains or the aquatic environment.

Environmental precautions:
- If the product contaminates rivers and lakes or drains inform respective authorities.
- Do not empty into drains.

Methods and materials for containment and cleaning up:
- Keep in suitable, closed containers for disposal.
- Take up mechanically.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion:
- Dust can form an explosive mixture in air. Take measures to prevent the build up of electrostatic charge. Keep away sources of ignition. Keep away from heat.

Advice on safe handling:
- Store in a dry place.
- Keep only in the original container.
- Do not expose to temperatures exceeding 50 °C/ 122 °F.

Technical measures/Precautions:
- Store in original container.
- Keep container closed.

Materials to avoid:
- not required

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Engineering measures: Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.

Personal protective equipment:

Respiratory protection: If airborne concentrations pose a health hazard, become irritating or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134

Hand protection: Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.

Eye protection: Tightly fitting safety goggles

Skin and body protection: Protective clothing to minimize skin contact should be worn. Chemically resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eyewash stations should be provided in all areas where this material is handled.

Protective measures: Avoid contact with skin and eyes. Do not breathe dust.

Hygiene measures: Use only in well-ventilated areas. Take off immediately all contaminated clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystalline powder

Particle size: 110 - 150 µm

Median value

Colour: white

Odour: odourless

Odour Threshold: not tested.

pH: 7

Concentration: 1 g/l (20 °C)

Method: OECD Test Guideline 102

Melting point: 125 °C

Decomposition: yes

Boiling point (decomposition): approx. 270 - 280 °C

(1,013 hPa)
Flash point : Not applicable
Evaporation rate : Not applicable
Flammability (solid, gas) : not determined
Upper explosion limit : Not applicable
Lower explosion limit : Not applicable
Combustion number : BZ1  Does not catch fire
Vapour pressure : 0.000028 Pa (20 °C)
    Method: OECD Test Guideline 104
Relative vapour density : Not applicable
Relative density : not tested.
Density : 1.3775 g/cm3
    Method: OECD Test Guideline 109
Bulk density : approx. 880 kg/m3
Solubility(ies)
    Water solubility : approx. 1.88 g/l (20 °C)
    Method: OECD Test Guideline 105
    Solubility in other solvents : not tested.
Solvent: fat
Partition coefficient: n-octanol/water : log Pow: 1.98
    Method: OECD Test Guideline 107
Auto-ignition temperature : not tested.
Decomposition temperature : > 270 - 280 °C
    Heating rate : 3 K/min
    Method: DSC
    No decomposition if used as directed.
Viscosity
    Viscosity, dynamic : Not applicable
    Viscosity, kinematic : not tested.
Explosive properties : Not explosive
    Method: Expert judgement
SAFETY DATA SHEET

NIPAGIN M

Substance key: 000000051881
Revision Date: 07/21/2015
Version: 4 - 2 / USA
Date of printing: 12/28/2015

Oxidizing properties: The substance or mixture is not classified as oxidizing.
Method: Tested according to Directive 92/69/EEC.

Surface tension: Based on chemical structure, no surface activity is expected or can be predicted.

Sublimation point: not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

Conditions to avoid: None known.
not known

Incompatible materials: not known

Hazardous decomposition products: When handled and stored appropriately, no dangerous decomposition products are known

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Eye contact
Ingestion
Inhalation

Acute toxicity

Product:
Acute oral toxicity: LD50 (Rat): 2,100 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity: Remarks: not tested.

Acute dermal toxicity: Remarks: not tested.

Skin corrosion/irritation

Product:
Species: Rabbit
Method: Draize Test
Result: No skin irritation
Serious eye damage/eye irritation

**Product:**
- Species: rabbit eye
- Result: Mild eye irritation
- Method: Draize Test

Respiratory or skin sensitisation

**Product:**
- Species: Guinea pig
- Method: OECD Test Guideline 406
- Result: non-sensitizing

Germ cell mutagenicity

**Product:**
- Genotoxicity in vitro: Test Type: Ames test
  - Species: Salmonella typhimurium
  - Method: OECD Test Guideline 471
  - Result: Negative with and without metabolic activation

- Genotoxicity in vivo: Test Type: Dominant lethal assay
  - Species: Rat (male)
  - Application Route: oral (gavage)
  - Method: OECD Test Guideline 478
  - Result: negative

  - Test Type: Chromosome Aberration Test
    - Species: Rat (male)
    - Application Route: oral (gavage)
    - Method: OECD Test Guideline 475
    - Result: negative

**Assessment:** It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Carcinogenicity

**Product:**
- Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.

IARC: Not listed

OSHA: Not listed

NTP: Not listed
Reproductive toxicity

Product:
Reproductive toxicity - Assessment : No teratogenic effects to be expected.
No reproductive toxicity to be expected.

STOT - single exposure

Product:
Remarks: not tested.

STOT - repeated exposure

Product:
Remarks: not tested.

Repeated dose toxicity

Product:
Species: Rat, male and female
NOAEL: > 250 mg/kg
Application Route: oral (gavage)
Method: OECD Test Guideline 407

Aspiration toxicity

Product:
no data available

Experience with human exposure

Product:
General Information : The possible symptoms known are those derived from the labelling (see section 2).

Further information

Product:
Remarks: Inhalation of dust causes slight irritation of the respiratory tract.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:
Toxicity to fish : LC50 (Oryctes latipes): 59.5 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 11.2 mg/l  
Exposure time: 48 h

Toxicity to algae: EC50 (Green algae - fresh water (Pseudokirchneriella subcapitata)): 91 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 0.2 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to bacteria: Remarks: not tested.

Toxicity to soil dwelling organisms: Remarks: not tested.

Plant toxicity: Remarks: not tested.

Toxicity to terrestrial organisms: Remarks: not tested.

Persistence and degradability

Biodegradability: CO2 formation in % of theoretical value  
Biodegradation: 89 % (CO2 formation in % of theoretical value)  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Readily biodegradable, according to appropriate OECD test.

Biochemical Oxygen Demand (BOD): Remarks: not available

Chemical Oxygen Demand (COD): Remarks: not available

Dissolved organic carbon (DOC): Remarks: not available

Physico-chemical removability: Remarks: not tested.

Photodegradation: Remarks: not tested.

Bioaccumulative potential

Bioaccumulation: Remarks: Due to the low logPow bioaccumulation is not expected
Mobility in soil

**Product:**
Distribution among environmental compartments

**Remarks:** Based upon the calculated log Koc, adsorption to the soil phase is not expected.

Other adverse effects

**Product:**
Environmental fate and pathways

**Remarks:** Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Results of PBT and vPvB assessment

**Remarks:** After consideration of all available toxicity and ecotoxicity data it is concluded that the substance does not fulfil the PBT or vPvB criteria.

Additional ecological information

The product should not be allowed to enter drains, water courses or the soil.

SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

**RCRA - Resource Conservation and Recovery Authorization Act**

**Waste Code**: NO -- Not as sold.

**Waste from residues**: Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

**Contaminated packaging**: Regulations concerning reuse or disposal of used packaging materials must be observed.

SECTION 14. TRANSPORT INFORMATION

**DOT**

not restricted

**IATA**

not restricted

**IMDG**

not restricted

SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.
SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard
SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 : This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

Clean Water Act
Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:
TSCA : All components of this product are listed on the TSCA Inventory. However, the primary use of this product is NOT subject to TSCA but rather to FDA and must comply with the FDA regulations.

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

Observe national and local legal requirements
Observe all necessary precautions for handling fine powders to control dust. May present dust explosion hazard. Reference exposure limit: ACGIH (TLV) for particulate matter - 10 mg/m3 inhalable particulates, 3 mg/m3 respirable particulates. OSHA Permissible Limit (PEL) for particulate matter: total dust: 15 mg/m3; respirable fraction: 5 mg/m3

Revision Date : 07/21/2015

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained.
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