

NIPAGIN M

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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:	
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.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

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Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Methyl paraben	99-76-3	100

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

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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

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- 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
Remarks : 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)
- Melting point : 125 °C
Method: OECD Test Guideline 102
- Boiling point (decomposition) : approx. 270 - 280 °C
(1,013 hPa)
Decomposition: yes

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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/cm ³ Method: OECD Test Guideline 109
Bulk density	:	approx. 880 kg/m ³
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

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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

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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)
Strain: Sprague-Dawley
Application Route: oral (gavage)
Method: OECD Test Guideline 478
Result: negative

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

Germ cell mutagenicity - 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

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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 (Oryzias latipes): 59.5 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

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- 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**Product:**

- 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**Product:**

- Bioaccumulation : Remarks: Due to the low logPow bioaccumulation is not expected

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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 : 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 Act Waste Code : No -- Not as sold.
: NONE

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.

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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

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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

SAFETY DATA SHEET



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from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

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