

## NIPAGIN M

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Version : 5 - 1 / USA

Revision Date: 04/30/2020  
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## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
	<b>Information of the substance/preparation:</b> Product Stewardship, +1-704-331-7710
	<b>Emergency tel. number:</b> +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 in accordance with 29 CFR 1910.1200**

Eye irritation : Category 2B

Combustible dust

**GHS label elements**

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.

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**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance  
Chemical nature :  
Substance name : methyl-4-hydroxybenzoate  
CAS-No. : 99-76-3

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
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/  
doctor.

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 : High volume water jet

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media	Carbon dioxide (CO <sub>2</sub> ) Dry powder
Specific hazards during firefighting	: In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO) Carbon dioxide (CO <sub>2</sub> )  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.

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- Conditions for safe storage : Keep only in the original container.  
Keep container tightly closed.  
Keep container tightly closed in a dry and well-ventilated place.
- Further information on storage conditions : Store in original container.  
Keep container closed.
- Materials to avoid : not required

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**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  
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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : Crystalline powder

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Colour	:	white
Odour	:	odourless
Odour Threshold	:	not tested.
pH	:	7 (68 °F / 20 °C) Concentration: 1 g/l
Melting point	:	257 °F / 125 °C Method: OECD Test Guideline 102
Boiling point (decomposition)	:	approx. 518 - 536 °F / 270 - 280 °C (1,013 hPa) Decomposition: yes
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Self-ignition	:	Method: EC A.16 The substance or mixture is not classified as self heating.
Burning number	:	1 Does not catch fire
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	0.000028 Pa (68 °F / 20 °C) Method: OECD Test Guideline 104
Relative vapour density	:	Not applicable
Relative density	:	not tested.
Density	:	1.3775 g/cm <sup>3</sup> Method: OECD Test Guideline 109
Bulk density	:	approx. 880 kg/m <sup>3</sup>
Solubility(ies) Water solubility	:	approx. 1.88 g/l (68 °F / 20 °C) Method: OECD Test Guideline 105
Partition coefficient: n-octanol/water	:	log Pow: 1.98 Method: OECD Test Guideline 107

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Auto-ignition temperature	:	not tested.
Decomposition temperature	:	> 518 - 536 °F / > 270 - 280 °C Heating rate: 3 K/min Decomposition energy (mass): 499 kJ/kg Method: DSC No decomposition if used as directed.
Viscosity	:	
Viscosity, dynamic	:	Not applicable
Explosive properties	:	Not explosive Method: Expert judgement
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
Dust deflagration index (Kst)	:	197 m.b_/s
Dust explosion class	:	ST1 Capable of dust explosion
Minimum ignition energy	:	3 - 5 mJ (1094 °F / 590 °C)
Particle size	:	110 - 150 µm Median value

**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

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**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Eye contact  
Ingestion  
Inhalation

**Acute toxicity****Components:****Methyl paraben:**

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

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

**Skin corrosion/irritation****Components:****Methyl paraben:**

Species: Rabbit  
Method: Other  
Result: No skin irritation

**Serious eye damage/eye irritation****Components:****Methyl paraben:**

Species: Rabbit  
Result: No eye irritation  
Method: Other

**Respiratory or skin sensitisation****Components:****Methyl paraben:**

Test Type: Maurer optimisation test  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Not a skin sensitizer.

**Germ cell mutagenicity****Components:****Methyl paraben:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium

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Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Concentration: 125 µg/mL  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: Dominant lethal assay  
Species: Rat (male)  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 5, 50, 500 mg/kg/bw  
Method: OECD Test Guideline 478  
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

**Carcinogenicity****Components:****Methyl paraben:**

Species: Rat, (male and female)  
Exposure time: 52 weeks  
Frequency of Treatment: twice weekly  
3.5 mg/kg bw/day  
Method: Other  
Result: negative

Species: Mouse, (male and female)  
2.5 mg/kg body weight  
Method: Other  
Result: negative

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**IARC** Not listed

**OSHA** Not listed

**NTP** Not listed

**Reproductive toxicity****Components:**

**Methyl paraben:**



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- Effects on fertility : Test Type: Fertility  
Species: Rat, male  
Application Route: oral (feed)  
Dose: 100, 1000, 10000 ppm  
General Toxicity - Parent: NOAEL: 1,000 ppm  
Method: Other
- Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Strain: wistar  
Application Route: Oral  
Developmental Toxicity: NOAEL: 550 mg/kg body weight  
Method: OECD Test Guideline 414
- Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**STOT - single exposure****Components:****Methyl paraben:**

Remarks: no data available

**STOT - repeated exposure****Components:****Methyl paraben:**

Remarks: no data available

**Repeated dose toxicity****Components:****Methyl paraben:**

Species: Rat, male and female  
NOAEL: >= 250 mg/kg  
Application Route: oral (gavage)  
Exposure time: 28 d  
Number of exposures: daily  
Dose: 50, 250, 1000 mg/kg/day  
Method: Other

**Aspiration toxicity****Components:****Methyl paraben:**

no data available

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**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****Components:****Methyl paraben:**

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 59.5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
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  
Test Type: static test  
Method: ISO 6341

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 91 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: ISO 8692

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 0.024 mg/l  
End point: mortality  
Exposure time: 63 d  
Test Type: flow-through test  
Method: OECD Test Guideline 234  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.2 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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**Persistence and degradability****Product:**

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.

**Components:****Methyl paraben:**Biodegradability : Inoculum: activated sludge  
Carbon dioxide (CO<sub>2</sub>)  
Result: Readily biodegradable.  
Biodegradation: 89 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B**Bioaccumulative potential****Components:****Methyl paraben:**

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

Partition coefficient: n-octanol/water : log Pow: 1.98 (68 °F / 20 °C)  
Method: Other**Mobility in soil****Components:****Methyl paraben:**Distribution among environmental compartments : Koc: 280  
Method: estimated**Other adverse effects****Product:**

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

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

**Components:****Methyl paraben:**

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

RCRA - Resource Conservation and Recovery Act : No -- Not as sold.

Waste Code : 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.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Combustible dust  
Serious eye damage or eye irritation

**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.

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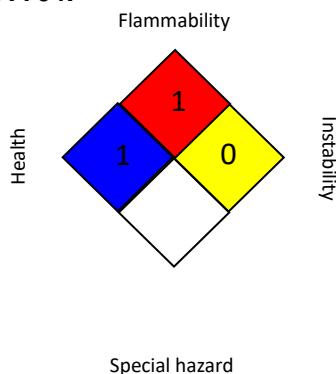
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**Clean Water Act**

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.

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise

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Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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/m<sup>3</sup> inhalable particulates, 3 mg/m<sup>3</sup> respirable particulates. OSHA Permissible Limit (PEL) for particulate matter: total dust: 15 mg/m<sup>3</sup>; respirable fraction: 5 mg/m<sup>3</sup>

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