



## SAFETY DATA SHEET

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### Section 1: Identification

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#### Product identifier used on the label;

**Product name:** ANIT-FUNGAL TABLET  
**Product code:** MXA29009

#### Other means of identification;

No information

#### Recommended use of the chemical and restrictions on use;

**Recommended use:** Protection for optical devices  
**Restrictions on use:** No information

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party;

**Name:** NIKON CORPORATION  
**Department in Charge:** Healthcare Business Unit  
**Address:** 471, Nagaodai-cho, Sakae-ku, Yokohama, Kanagawa 244-8533  
**Telephone number:** +81-45-853-8608  
**Fax number:** +81-45-853-8485  
**e-mail address:** Msqa.Manager@nikon.com

#### Emergency phone number

+81-45-853-8608

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### Section 2: Hazard(s) identification

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#### Classification of the chemical in accordance with paragraph (d) of §1910.1200;

##### Physical Hazards

Not classified

##### Health Hazards

Acute toxicity (oral):	Category 4
Acute toxicity (inhalation: dust/mist):	Category 3
Serious eye damage/eye irritation:	Category 1
Skin sensitization:	Category 1
Specific target organ toxicity repeated or prolonged exposure:	Category 1 (larynx)

##### Environmental Hazards

Hazardous to the aquatic environment (acute)	Category 1
Hazardous to the aquatic environment (chronic)	Category 1

### Other Hazards

No information

### Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200;

#### Symbol(s)



#### Signal word

#### Danger

#### Hazard Statement(s)

H302: Harmful if swallowed  
H317: May cause an allergic skin reaction  
H318: Causes serious eye damage  
H331: Toxic if inhaled  
H372: Causes damage to larynx through prolonged or repeated exposure  
H400: Very toxic to aquatic life  
H410: Very toxic to aquatic life with long lasting effects

#### Precautionary Statement(s)

[Prevention]

P260: Do not breathe dust/fume/gas/mist/ vapors/spray.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing must not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

[Emergency response]

P301+P312: If swallowed: Call a poison center/doctor/if you feel unwell.  
P302+P352: If on skin: Wash with plenty of water.  
P304+P340: If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a poison center/doctor.  
P314: Get medical advice/attention if you feel unwell.  
P330: Rinse mouth.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P311: Call a poison center/doctor.  
P363: Wash contaminated clothing before reuse.



[Storage]	P391: Collect spillage. P403+P233: Store in a well-ventilated place. Keep container tightly closed.
[Disposal]	P405: Store locked up. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

**Description of any hazards not otherwise classified;**

No information

**Ingredient with unknown acute toxicity in the mixture**

70% of the contents in mixture has no information on acute toxicity.

**Section 3: Composition/information on ingredients****Compositions (contents of the product)**

Chemical name	CAS No.	Concentration/concentration ranges (wt %)
3-Iodo-2-propynyl butylcarbamate	55406-53-6	30
Hydroxylapatite	1306-06-5	20
Magnesium stearate	557-04-0	2
D-Lactose Monohydrate(Organic)	64044-51-5	48

**Section 4: First-aid measures****Necessary first-aid measures by relevant routes of exposure;**

IF INHALED	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms continue, call a doctor/physician.
IF ON SKIN	Wash with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If symptoms continue, call a POISON CENTER or doctor/physician.
IF IN EYES	Immediately rinse cautiously with water for 15 - 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms continue, call a doctor/physician.
IF SWALLOWED	Rinse mouth. Immediately get medical advice/attention. If unconscious, do not give anything by mouth.

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

- Harmful if swallowed.
- May cause an allergic skin reaction.
- Causes serious eye damage.
- Toxic if inhaled.
- Causes damage to larynx through prolonged or repeated exposure.

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

No information

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**Section 5: Fire-fighting measures**

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**Suitable (and unsuitable) extinguishing media;****Suitable extinguishing media:**

Use water mist, dry chemical powder, fire foam or carbon dioxide.

**Unsuitable extinguishing media**

Applying direct water may be dangerous because fire may expand to surroundings.

**Specific hazards arising from the chemical;**

May produce toxic gases (e.g. carbon monoxide, nitrogen oxides or halogen compounds) by combustion.

**Special protective equipment and precautions for fire-fighters;**

Cut off any ignition sources and extinguish with an appropriate agent.

Cool the surrounding tank and the buildings with direct water jet to avoid risk of fire spreading.

Take action from windward.

Keep out except responsible personnel.

Move container to a safe area if it can be done without risk.

Wear suitable self-contained breathing apparatus and heat resistant protective clothing for eyes and skin.

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**Section 6: Accidental release measures**

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

Keep out except responsible personnel.

Wear suitable protective equipment described in "Section 8: Exposure controls/personal protection".

Avoid release into the environment because product may cause local effects.

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

Sweep up scattered materials or vacuum them using a vacuum cleaner so as not to cause dust then collect them into an empty container.

Do not eat or drink near handling and storage locations.

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

Prevent to flowing into drains, sewers, basements or closed areas.



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## Section 7: Handling and storage

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### Precautions for safe handling

#### Protective measures:

Install appropriate equipment and wear suitable protective apparatus described in "Section 8: Exposure controls/personal protection".

Do not handle until all safety precautions have been read and understood.

Wear suitable protective equipment to prevent any contamination of skin or eyes.

Described in "Section 10: Stability and reactivity".

#### Advice on general occupational hygiene:

Wash hands and face thoroughly and gargle the throat after handling.

### Conditions for safe storage, including any incompatibilities

#### Technical measures:

In the storage area, install adequate light and ventilation systems to handle hazardous materials.

Take precautionary measures against static discharge.

#### Incompatible materials:

Oxidizer

#### Conditions for safe storage:

Avoid storing under high temperature and high humidity. Store at room temperature.

#### Packing material:

Use a sealed container without damage or leakage.

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## Section 8: Exposure controls/personal protection

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### Occupational Exposure Limits;

OSHA PEL	Not applicable
ACGIH TLV-TWA (2017)	10 mg/m <sup>3</sup> (Inhalable fraction) (Magnesium stearate) 3 mg/m <sup>3</sup> (Respirable fraction) (Magnesium stearate)
ACGIH TLV-STEL (2017)	Not applicable

### Appropriate engineering controls;

In a work place where dusts generate, ensure to use sealed instrument or local ventilation.

### Individual protection measures, such as personal protective equipment;

Respiratory protection	In case of dust generation, wear appropriate protective mask or air aspirator as required.
Hand protection	If hand contact is possible, wear protective gloves.
Eye protection	Wear safety glasses or goggles if in eyes.
Skin and body protection	Wear protective clothing and apron if necessary.



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**Section 9: Physical and chemical properties**

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Appearance (physical state, color, etc.)	Solid
Odor	No information
Odor threshold	No information
pH	No information
Melting point/freezing point	No information
Initial boiling point and boiling range	No information
Flash point	No information
Evaporation rate	No information
Flammability (solid, gas)	No information
Upper/lower flammability or explosive limits	No information
Vapor pressure	No information
Vapor density	No information
Relative density	No information
Solubility (ies)	No information
Partition coefficient: <i>n</i> -octanol/water	No information
Auto-ignition temperature	No information
Decomposition temperature	No information
Viscosity	No information

**Other information**

No information

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**Section 10: Stability and reactivity**

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**Reactivity**

Stable under normal handling condition.

**Chemical stability**

Stable under normal handling condition.

**Possibility of hazardous reactions**

No hazardous reaction expected under normal handling.

**Conditions to avoid**

Avoid sunlight. Store in a cool place.

**Incompatible materials**

Oxidizer



### Hazardous decomposition products

May produce toxic gases (e.g. carbon monoxide, nitrogen oxides or halogen compounds) by combustion.

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## Section 11: Toxicological information

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### Symptoms related to the physical, chemical and toxicological characteristics;

Information on product:

No information

Information on ingredients:

#### 3-Iodo-2-propynyl butylcarbamate

Acute toxicity (oral):	Rat LD <sub>50</sub> = 300 - 500 mg/kg
Acute toxicity (dermal):	Rat LD <sub>50</sub> > 5,000 mg/kg
Acute toxicity (inhalation: dust/mist):	Rat 4h-LD <sub>50</sub> = 0.67 mg/L
Serious eye damage/irritation:	Causes serious eye damage.
Skin sensitization:	May cause an allergic skin reaction.
STOT-repeated exposure:	Causes damage to larynx through prolonged or repeated exposure.
Other toxicological information	No information

#### Hydroxylapatite

Acute toxicity (oral):	Rat LD <sub>50</sub> ≥ 1,000 mg/kg (As dry product of Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> )
Other toxicological information	No information

#### Magnesium stearate

Acute toxicity (oral):	Rat LD <sub>50</sub> > 10,000 mg/kg (as Zinc stearate) Mouse LD <sub>50</sub> > 10,000 mg/kg (as Zinc stearate)
Specific target organ toxicity repeated exposure:	If swallowed high concentrations of dust for a long period or repeatedly, may cause progressive chemical pneumonitis.
Other toxicological information	No information

#### D-Lactose Monohydrate

Acute toxicity (oral):	Rat LD <sub>50</sub> > 10 g/kg
Other toxicological information	D-Lactose Monohydrate is separated from milk and it is considered to be extremely low in hazard because it is used as food.

### Delayed and immediate effects and also chronic effects from short- and long-term exposure;

Harmful if swallowed.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Toxic if inhaled.



Causes damage to larynx through prolonged or repeated exposure.

**Numerical measures of toxicity (such as acute toxicity estimates);**

Acute toxicity was estimated based on ingredients of the product by additivity formula.

**Whether the chemical is listed in the NTP Report on Carcinogens or has been found to be a potential carcinogen in the IARC Monographs, or by OSHA;**

IARC: Not listed as Group 1, Group 2A or Group 2B

NTP Report: Not listed

OSHA: Not listed

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**Section 12: Ecological information**

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**Ecotoxicity:**

Information on product: No information

Information on ingredients:

3-Iodo-2-propynyl butylcarbamate

Aquatic acute toxicity: Fish (*Oncorhynchus mykiss*) 96h LC<sub>50</sub> = 0.067 mg/L

Aquatic chronic toxicity: Fish (*Pimephales promelas*) 35d NOEC = 0.0084 mg/L

**Persistence and degradability:**

Information on product: No information

Information on ingredients:

3-Iodo-2-propynyl butylcarbamate

IPBC rapidly changes to PBC in the environment.

Magnesium stearate

Although there is no data of this substance, in the case of lead stearate, because biodegradability is judged to be good, this product is also judged to have good biodegradability.

D-Lactose Monohydrate

Biodegradable

**Bioaccumulative potential:**

Information on product: No information

Information on ingredients:

3-Iodo-2-propynyl butylcarbamate

Log Pow = 2.8

Magnesium stearate

Log P = ca. 14

Bioaccumulation in aquatic organisms is considered as negligible or low because the substances with





Log P  $\geq$  ca. 7 is insoluble in water.

**Mobility in soil:**

Information on product: No information

Information on ingredients: No information

**Other adverse effects:**

No information

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**Section 13: Disposal considerations**

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**Waste treatment methods**

Dispose of waste in accordance with applicable local, regional and international regulations and standards.

When disposing, consult to a certificated waste trader or local offices if they deal with the waste.

Contents should be removed completely when dispose of empty containers.

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**Section 14: Transport information**

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<b>UN number</b>	2811
<b>UN proper shipping name</b>	TOXIC SOLID, ORGANIC, N.O.S.
<b>Transport hazard class (es)</b>	6.1
<b>Packing group</b>	III
<b>Environmental hazards</b>	Applicable
<b>Transport in bulk according to Annex II of MARPOL 73/78 and IBC code</b>	Not applicable

**Special precautions for user**

When transporting, avoid direct sunlight. Confirm no leakage to containers. When loading, prevent containers from falling, dropping off or damaging. Take preventive measures of collapse.

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**Section 15: Regulatory information**

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<b>OSHA:</b>	Hazardous chemical
<b>TSCA inventory:</b>	Listed (3-Iodo-2-propynyl butylcarbamate, Hydroxylapatite, Magnesium stearate)
<b>TSCA SNUR:</b>	Not listed
<b>SARA Title III:</b>	Section 313 (TRI Chemicals): 3-Iodo-2-propynyl butylcarbamate
<b>CERCLA Reportable Quantity:</b>	Not listed
<b>Clean Air Act:</b>	This product does not contain any substances regulated as hazardous air pollutants under Section 112 of the Clean Air Act.
<b>Clean Water Act:</b>	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act.



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**Section 16: Other information, including date of preparation or last revision**

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**Update history:**

Date of issue: 12th September, 2019

**References:**

NITE GHS classification results (<http://www.safe.nite.go.jp/ghs/list.html>). (2018)

ACGIH, American Conference of Governmental Industrial Hygienists (2017) TLVs and BEIs.

**Product Info**

This product contains two (2) pieces per package.

The weight per piece is 100 mg.

**[Disclaimer]**

This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.