

Safety Data Sheet

Safety Data Sheet / SANMITE 10SC

Issue Date : July 31, 2023

Revision Date : July 17, 2025

Version No. : 4

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Name of product : **SANMITE 10SC**
Other names : Pyridaben 100 g/L SC, Pyridaben 10 % w/v, NC-129 10 SC, NEXTER, NEXTER 10 SC, POSEIDON 10 SC, CAREX 10 SC
Formulation code : NC-129-10SC-06
Type of formulation : Suspension Concentrate (SC)
Product registration number : 211PC
Unique Formula Identifier (UFI) : 998H-AC72-G005-TF7X

1.2. Relevant identified uses of the substance or mixture and uses advised against

Function : Plant protection product, insecticide/acaricide
Recommended restrictions on use : Professional use

1.3. Details of the supplier of the safety data sheet

Manufacturer and Supplier

Nissan Chemical Europe S.A.S
18 Chemin des Cuers 69570 Dardilly, France
Contact person : Mr. Yasuhiro Fukami
Phone : +33 (0)4 37 64 40 20

1.4. Emergency telephone number

Nissan Chemical Europe S.A.S
: +33 (0)4 37 64 40 20 (available only during office hours)

Centrul de Informare Toxicologică - Spitalul Clinic de Urgență București, Strada Calea Floreasca nr. 8, Sector 1, București, Tel: 0215992300, Fax: 0215992257, Apel de urgență 021 112.
Spitalul Clinic de Urgență pentru Copii "Grigore Alexandrescu", Bd. Iancu de Hunedoara nr. 30-32, București, Tel: 021 2106282; 021 2106183.

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

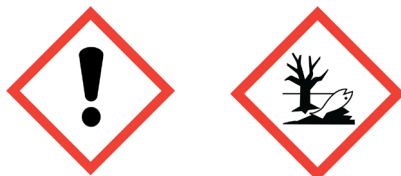
Classification in accordance with Regulation (EC) No 1272/2008 [CLP]

Acute Tox.4, H302, H332
Aquatic Chronic. 1, H410

2.2. Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 [CLP]

Hazard Pictogram



Signal Word
Warning

Hazard statement

H302 : Harmful if swallowed.
H332 : Harmful if inhaled.
H410 : Very toxic to aquatic life with long lasting effects.
EUH208 : Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.
EUH401 : To avoid risks to human health and the environment, comply with the instructions for use.

2. HAZARD IDENTIFICATION (continued)

Precautionary statement

P261	: Avoid breathing spray
P264	: Wash hands thoroughly after handling
P273	: Avoid release to the environment
P280	: Wear protective gloves/protective clothing/eye protection/face protection.
P312	: Call a POISON CENTER or doctor/physician if you feel unwell
P391	: Collect spillage
P501	: Dispose of contents/containers to an establishment licensed for waste collection.

2.3. Other hazards

This product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.

Ecological information: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

Toxicological information: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

3. COMPOSITION/INFORMATION OF INGREDIENTS**3.2. Mixtures****Chemical Composition:**

Pyridaben	> 5.0 - 15.0 % w/v
Other inert ingredients	> 85.0 - 95.0 % w/v

Active Ingredient

Common Name	: Pyridaben
Code No.	: NC-129
CAS No.	: 96489-71-3
Chemical Name	
(CA)	: 4-chloro-2-(1,1-dimethylethyl)-5-[[[4-(1,1-dimethylethyl)phenyl]methyl]thio]-3(2H)-pyridazinone
(IUPAC)	: 2- <i>tert</i> -butyl-5-(4- <i>tert</i> -butylbenzylthio)-4-chloropyridazin-3(2H)-one
Classification in accordance with Regulation (EC) No 1272/2008	
	: Acute Tox.3, Aquatic Acute 1., Aquatic Chronic 1.
	H301, H331, H400, H410
REACH registration No.	
	: Not assigned
EINECS or ELINCS No.	
	: 405-700-3

4. FIRST AID MEASURES**4.1. Description of first aid measures**

Eye contact	: Immediately rinse with running water for at least 15 minutes. Seek medical advice.
Skin contact	: Remove all contaminated clothing, shoes and socks from the affected area. Wash material off the skin in flowing water or shower with soap. If irritation persists, consult a physician immediately.
Inhalation	: If respiratory discomfort occurs, move the person to fresh air. If not breathing, give mouth-to-mouth resuscitation (or an artificial respiration). Keep warm with blanket and keep at rest. Seek emergency medical advice.
Ingestion	: Do not induce vomiting. Wash out mouth with water. Do not given anything by mouth if person is unconscious. Seek emergency medical advice.

4. FIRST AID MEASURES (continued)

4.2. Most important symptoms and effects, both acute and delayed

No symptoms have been identified in humans to date.

4.3. Indication of any immediate medical attention and special treatment needed

Treat based on judgment by physician in response to symptoms of patient. No specific antidotes are known.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

: Water, foam, dry chemicals or carbon dioxide.

Extinguishing media which shall not be used for safety reasons

: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Carbon dioxide, carbon monoxide, hydrogen chloride and oxides of nitrogen and sulfur are potential thermal decomposed products.

5.3. Advice for firefighters

In the event of fire and/or explosion do not breathe fumes. Use self-contained breathing apparatus and protective clothing. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, shoes, gloves and goggles. Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke.

6.2. Environmental precautions

Keep unauthorized persons, children and animals away from the affected area. Prevent spillage from entering the drainage systems or watercourses.

6.3. Methods and material for containment and cleaning up

Carefully sweep up and collect the spilled material using an inert absorbent material (sand, vermiculite, or sawdust) and place in a closed container (drum) for disposal. Remove (large quantities) with vacuum truck. Do not raise dust. Wash affected area with water containing detergent.

6.4. Reference to other sections

See section 8 for personnel protective equipment.

See section 13 for waste disposal.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

No specific precautions required when handling unopened packs/containers. Avoid contact with skin or eyes. Protect containers against physical damage. Wear suitable protective clothing, shoes, gloves and goggle during handling. Do not eat, drink, or smoke during when using this product (P270). Prevent spillage from entering the drainage systems or watercourses.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed in original labeled container. Store in a cool and dry place and protect from direct sunlight. Keep away from the reach of children. Keep away from foods, drinks and animal feeding stuffs.

7.3. Specific end use(s)

Use this product only for plant protection.

8. EXPOSURE CONTROL/PERSONAL PROTECTION**8.1. Control parameters**

Exposure limit values (DNEL, PNEC)
: Not established

8.2. Exposure controls

Exposure controls

Occupational exposure controls

Respiratory protection

: Particle filter with medium efficiency for solid and liquid particles.

Hand protection : Chemical resistant gloves, Rubber gloves.

Eye protection : Safety glasses or goggles.

Skin protection : Impervious clothing such as gloves, apron or PVC boots.

Environmental exposure controls

: Prevent spillage from entering the drainage systems or watercourses.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state : Liquid

Colour : Pale grey/brown

Odour : Slight vanilla odour

Melting point : Not applicable since the product is liquid at ambient temperature.

Boiling point : Not available.

Flammability : Not applicable since the product is liquid at ambient temperature.

Lower and upper explosion limit

: Not explosive.

Flash point : None below 400°C

Auto-ignition temperature

: No self-ignition temperature below 400°C.

Decomposition temperature

: Not available

pH : 8.0 (1% w/v suspension)

Kinetic viscosity : 40 to 920 mPa.s at 20°C. 40 to 860 mPa.s at 40°C.

Water solubility : Dispersible

Partition coefficient (n-octanol/water)

: log Pow (n-octanol/water) = 6.37 at 23°C (pyridaben)

Vapor pressure : < 1 x 10⁻⁵ Pa at 52.7°C (pyridaben)

Relative density : 1.031 at 20°C

Relative vapor density

: Not available

Particle characteristics

: Not available

9.2. Other information

No other information is available.

10. STABILITY AND REACTIVITY**10.1. Reactivity**

May react with strong bases, acids or strong oxidizing agents, such as chlorates, nitrates, peroxides.

10.2. Chemical stability

Stable under normal ambient storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur.

10.4. Conditions to avoid

Avoid high temperatures. Protect from sunlight, open flame, sources of heat and humidity.

10. STABILITY AND REACTIVITY (continued)**10.5. Incompatible materials**

May react with strong bases, acids or strong oxidizing agents, such as chlorates, nitrates, peroxides.

10.6. Hazardous decomposition products

None hazardous decomposition products under normal conditions of storage and use. Thermal decomposition products include carbon monoxide, sulfur oxides and halogenated compounds.

11. TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 [CLP]****Information on likely routes of exposure**

: Ingestion, inhalation, skin contact and eye contact

Product

Acute oral toxicity LD₅₀ (rats)

: 300 - 2000 mg/kg

Classified as H302 (Harmful if swallowed).

Acute dermal toxicity LD₅₀ (rats)

: > 2,000 mg/kg

This product has no acute dermal toxicity.

Acute inhalation toxicity LC₅₀ (rats)

: > 3.1/1.6 mg/L (M/F) (4 hrs.)

Classified as H332 (Harmful if inhaled).

Eye irritation (rabbits)

: Not irritating

Skin irritation (rabbits)

: Mildly irritating (H315 is not required)

Sensitization (guinea pigs)

: Not sensitizing

Components**Pyridaben (ISO)**

Toxicokinetics, metabolism and distribution

: Widely distributed in all tissues, but no potential for accumulation. Extensively metabolized and none accounted for >5% of the dose.

Short-term oral toxicity (90 days)

: NOEL (rats, M/F) 2.30/2.64 mg/kg/day

This substance has no oral toxicity.

Short-term oral toxicity (1 year)

: NOEL (dogs) 1.0 mg/kg/day

This substance has no oral toxicity.

Short-term dermal toxicity (21 days)

: NOEL (rats) 100 mg/kg/day

This substance has no dermal toxicity.

Chronic (1.5 years) : NOEL (mice) 0.81/0.91 mg/kg/day

This substance has no chronic toxicity.

Carcinogenicity (2 years)

: NOEL (rats, M/F) 1.1/1.5 mg/kg/day

Not carcinogenic

Reproductive toxicity

: NOEL (rats) 2.02 mg/kg/day (Two-generation study)

No effects on reproduction

Developmental toxicity

: NOEL (rats) 13 mg/kg/day

Not teratogenic

Mutagenicity

: Not mutagenic (Negative in *in vitro* & *in vivo* studies)

12. ECOLOGICAL INFORMATION**12.1. Toxicity****Product**

Toxicity to fish	: LC ₅₀ (96h, Rainbow trout)	30.3 µg/L
Toxicity to <i>Daphnia</i>	: EC ₅₀ (48h, <i>Daphnia magna</i>)	8.58 µg/L
Toxicity to algae	: EC ₅₀ (72h, <i>P. subcapitata</i>)	> 100 mg/L
Toxicity to bees	: LC ₅₀ (Oral, 48h/Contact, 48h, <i>Apis mellifera</i>)	13.48/3.54 µg/bee

Components**Pyridaben (ISO)**

Toxicity to bird	: LD ₅₀ (Bobwhite quail/Mallard duck)	> 2,250/> 2,500mg/kg
Toxicity to earthworm	: LC ₅₀ (14days, <i>Eisenia foetida</i>)	38 ppm (mg/kg dry soil)
Toxicity to algae	: EC ₅₀ (96h, <i>S. capricornutum</i>)	> 1 mg/L
Soil micro-organism	: No unacceptable effect at 6 kg/ha	
Sewage treatment	: No inhibitory effect	

12.2. Persistence and degradability**Product**

No information is available for the product.

Components**Pyridaben (ISO)**

Pyridaben is hydrolytically stable in water, but is readily degraded under the light condition.

Hydrolysis (25°C)	: Stable for 30 days (pH 5, 7 and 9)
Aqueous photolysis (25°C)	: DT ₅₀ 5.3 minutes (pH 7, xenon arc lamp)
Degradation in soil (20°C)	: DT ₅₀ 4-146 days
Ready biodegradability	: Not readily biodegradable

12.3. Bioaccumulative potential**Product**

No information is available for the product.

Components**Pyridaben (ISO)**

The potential of the active ingredient to accumulate in biota and pass through the food chain is considered to be low based on the degradability of the substance and the value of BCF.

Partition coefficient (<i>n</i> -octanol/water)	: logPow = 6.37
Bioconcentration	: 342-439 (Rainbow trout)

12.4. Mobility in soil**Product**

No information is available for the product.

12. ECOLOGICAL INFORMATION (continued)**Components****Pyridaben (ISO)**

Pyridaben is considered not to leach into ground water.

Adsorption/desorption

: Pyridaben $K_{f^{abs}_{oc}}$: 34900-2150000 (immobile class)

12.5. Results of PBT and vPvB assessment**Product**

This product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.

12.6. Endocrine disrupting properties**Product**

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

12.7. Other adverse effects

Not available.

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Do not contaminate water, foodstuffs, feed or seed by disposal. Dispose of contents/container in accordance with all applicable regulations (P501).

PRODUCT DISPOSAL

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or burned in incinerator in accordance with all applicable regulations.

CONTAINER DISPOSAL

Completely empty container by shaking and tapping sides and bottom to loosen clinging particles. Do not reuse container. Triple rinse container, then puncture and dispose of by incineration in accordance with all applicable regulations.

14. TRANSPORT INFORMATION**14.1. UN number**

3082

14.2. UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (pyridaben)

14.3. Transport hazard class(es)

Class 9

14.4. Packing group

Packing Group III

14.5. Environmental hazards

Marine Pollutant Label

: Marine Pollutant

14.6. Special precautions for user

No special precautions available.

14. TRANSPORT INFORMATION (continued)**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No bulk transportation intended.

14.8. Supplemental information**IMDG**

UN no. : 3082
 Class : 9
 Packing group : III
 EmS : F-A, S-F
 Hazard label : Miscellaneous
 Marine pollutant label : Marine pollutant
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (pyridaben)

ICAO/IATA

UN no. : 3082
 Class : 9
 Packing group : III
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (pyridaben)

ADR/RID

UN no. : 3082
 Class : 9
 Packing group : III
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (pyridaben)

ADN/ADNR

UN no. : 3082
 Class : 9
 Packing group : III
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (pyridaben)

15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU**

The product is regulated under the EU Directive(s) or Regulation(s) on plant protection products since it is one of plant protection products.

JAPAN

The product for use of pesticides is controlled under Agricultural Chemicals Regulation Law.
 Not classified under Poisonous and Deleterious Substances Control Law.

Further Information

WHO Classification : III (Slightly hazardous)

15.2. Chemical safety assessment

The chemical safety assessment has not been carried out for this product yet.

16. OTHER INFORMATION**16.1. Classification and procedure used to derive the classification for mixtures in accordance with Regulation (EC) No 1272/2008 [CLP]**

Classification in accordance with Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Acute Tox.4, H302, H332	On basis of test data
Aquatic Chronic. 1, H410	On basis of acute data

16.2. Relevant Hazard and Precautionary statements (see Sec. 2 and 3)

Hazard statement

H301	: Toxic if swallowed
H302	: Harmful if swallowed
H331	: Toxic if inhaled
H332	: Harmful if inhaled
H400	: Very toxic to aquatic life
H410	: Very toxic to aquatic life with long lasting effects
EUH208	: Contains 1,2-benzisothiazol-3-ona. May produce an allergic reaction.
EUH401	: To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statement

P261	: Avoid breathing dust/fume/gas/mist/vapours/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.
P273	: Avoid release to the environment.
P280	: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+P312	: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P311	: Call a POISON CENTER or doctor/physician.
P312	: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	: Rinse mouth.
P391	: Collect spillage.
P403+P233	: Store in a well-ventilated place. Keep container tightly closed.
P405	: Store locked up.
P501	: Dispose of contents/container in accordance with local regulation.

Version	Changes	Date
Version 1	First version	July 31, 2023
Version 2	Update Section 14	October 5, 2023
Version 3	Update Section 1	September 13, 2024
Version 4	Update Section 14	July 17, 2025

This Safety Data Sheet is prepared in accordance with Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

The information above is believed to be accurate and represents the best information currently available. However, Nissan Chemical Corporation makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and Nissan Chemical Corporation assumes no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.