

Revision date: 2025/08/05 Page: 1/11

Version: 4.0 (30035072/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

CitronellyInitrile

Recommended use of the chemical and restriction on use

Recommended use*: Chemical, Chemical for detergents, Chemical for soaps, detergents and cosmetic

Unsuitable for use: Not intended for sale to or use by the general public.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Synonyms: 3,7-Dimethyloct-6-enenitrile

2. Hazards Identification

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Aquatic Acute 3

Hazardous to the aquatic environment - acute

Label elements

Hazard Statement:

^{*} The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Revision date: 2025/08/05 Page: 2/11 Version: 4.0 (30035072/SDS GEN US/EN)

H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P273 Avoid release to the environment.

Precautionary Statements (Disposal):

P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified

No data available.

3. Composition / Information on Ingredients

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Citronellyl nitrile

CAS Number: 51566-62-2 Content (W/W): 80.0 - 100.0%

Synonym: 3,7-Dimethyl-6-octenenitrile; Citronellylnitrile

The actual concentration is withheld as a trade secret.

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

If on skin:

Wash thoroughly with soap and water

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Rinse mouth and then drink 200-300 ml of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

Revision date: 2025/08/05 Page: 3/11 Version: 4.0 (30035072/SDS GEN US/EN)

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: carbon dioxide, foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons: water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting: carbon oxides, harmful vapours

The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Cool endangered containers with water-spray.

Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures, see section 8.

Environmental precautions

Do not allow to enter soil, waterways or waste water channels. In case of release into waterways, immediately notify the appropriate authorities downstream of the spill so they can determine if further action is needed.

Methods and material for containment and cleaning up

For small amounts: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Revision date: 2025/08/05 Page: 4/11 Version: 4.0 (30035072/SDS GEN US/EN)

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

No applicable information available.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

Advice on system design:

Ensure adequate ventilation.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

9. Physical and Chemical Properties

Physical state: liquid
Form: liquid
Odour: fruity
Odour threshold: < 100 ppm
Colour: colourless

pH value: The substance does not dissociate.

glass transition -120 °C (OECD Guideline

temperature: 102)

Melting point: not applicable (OECD Guideline

102)

Freezing point: No data available.

Boiling point: 231.43 °C (measured)

(1,013.25 hPa)

Sublimation point: No applicable information available.

Revision date: 2025/08/05 Page: 5/11 (30035072/SDS_GEN_US/EN) Version: 4.0

Flash point: 103 °C (DIN 51758, closed

Flammability: hardly combustible (derived from flash

point)

(calculated)

Lower explosion limit: For liquids not relevant for

> classification and labelling. The lower explosion point may be 5 - 15 °C

below the flash point.

Upper explosion limit: For liquids not relevant for

classification and labelling.

307 °C Autoignition: (Directive

92/69/EEC, A.15) (measured)

Vapour pressure: 0.57 mbar

(50°C)

0.05 mbar (measured)

(20°C)

Density: 0.8453 g/cm3 (OECD Guideline

> (20°C) 109)

Relative density: (OECD Guideline 0.8453

109)

(20°C) Relative vapour density: > 1

(20°C)

Heavier than air.

Partitioning coefficient n-3.55 (calculated)

octanol/water (log Pow): The data refers to the undissociated

form of the substance.

(OECD Guideline 3.1

(23°C) 117)

Self-ignition Based on its structural properties the temperature:

product is not classified as self-

igniting.

approx. 380 °C (DSC (DIN 51007)) Thermal decomposition:

No decomposition if stored and handled as

prescribed/indicated.

Viscosity, dynamic: 2.5 mPa.s (OECD Guideline

(20°C) 114)

The value was determined by calculation from the detected

kinematic viscosity.

1.64 mPa.s (OECD Guideline

(40°C) 114)

The value was determined by calculation from the detected

kinematic viscosity.

Viscosity, kinematic: 2.96 mm2/s (OECD Guideline

> (20°C) 114)

1.97 mm2/s (OECD Guideline

(40°C) 114)

Solubility in water: 119 g/l

(20°C)

Solubility (quantitative): No applicable information available.

Solubility (qualitative): soluble

solvent(s): organic solvents,

Molecular weight: 151.25 g/mol

Revision date: 2025/08/05 Page: 6/11 Version: 4.0 (30035072/SDS GEN US/EN)

Evaporation rate: Value can be approximated from

Henry's Law Constant or vapor

pressure.

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular

form.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Formation of Remarks: Forms no flammable gases in the

flammable gases: presence of water.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Avoid electro-static discharge. Avoid all sources of ignition: heat, sparks, open flame.

Incompatible materials

acids

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

approx. 380 °C (DSC (DIN 51007))

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Revision date: 2025/08/05 Page: 7/11 Version: 4.0 (30035072/SDS_GEN_US/EN)

Acute toxicity

Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Oral

Type of value: LD50

Species: rat

Value: 4,490 mg/kg

<u>Inhalation</u>

Type of value: LC50

Species: rat

Value: > 4.9 mg/l (BASF-Test)

Exposure time: 4 h
An aerosol was tested.

Dermal

Type of value: LD50 Species: rabbit Value: > 5,000 mg/kg

Assessment other acute effects

Assessment of STOT single:

Based on available data, the classification criteria are not met.

Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Skin

Species: rabbit Result: non-irritant

Method: similar to OECD guideline 404

<u>Eye</u>

Species: rabbit Result: non-irritant

Method: OECD Guideline 405

<u>Sensitization</u>

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. A controlled medical study in humans did not reveal a skin sensitizing effect.

Draize test

Species: guinea pig Result: Non-sensitizing.

Method: other

Human Maximization Test

Species: human Result: Non-sensitizing.

Method: other

Aspiration Hazard

No data available.

Revision date: 2025/08/05 Page: 8/11

Version: 4.0 (30035072/SDS_GEN_US/EN)

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No substance-specific organioxicity was observed after repeated administration to animals.

Genetic toxicity

Assessment of mutagenicity: In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays.

Carcinogenicity

Assessment of carcinogenicity: No data available concerning carcinogenic effects.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish

LC50 (96 h) 31.58 mg/l, Leuciscus idus (DIN 38412 Part 15, static)

The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates

EC50 (48 h) 11.4 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Aquatic plants

EC50 (72 h) 14.5 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

Chronic toxicity to fish

Study scientifically not justified.

Chronic toxicity to aquatic invertebrates

Study scientifically not justified.

Assessment of terrestrial toxicity

Study scientifically not justified.

Soil living organisms

Toxicity to soil dwelling organisms:

Study scientifically not justified.

Revision date: 2025/08/05 Page: 9/11 Version: 4.0 (30035072/SDS GEN US/EN)

Toxicity to terrestrial plants

Study scientifically not justified.

Other terrestrial non-mammals

Study scientifically not justified.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

DIN 38412 Part 27 (draft) aquatic

bacterium/EC10 (30 min): > 10,000 mg/l

The details of the toxic effect relate to the nominal concentration.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Readily biodegradable (according to OECD criteria).

Elimination information

69 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EWG, C.4-D) (aerobic, activated sludge, domestic)

Assessment of stability in water

Study scientifically not justified.

Bioaccumulative potential

Assessment bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments

The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is possible.

13. Disposal considerations

Waste disposal of substance:

Observe national and local legal requirements.

Container disposal:

Dispose of in accordance with national, state and local regulations.

14. Transport Information

Land transport USDOT

Not classified as a dangerous good under transport regulations

Revision date: 2025/08/05 Page: 10/11 Version: 4.0 (30035072/SDS_GEN_US/EN)

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

Chemical TSCA, US

All substances are TSCA listed and active.

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

NFPA Hazard codes:

Health: 0 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 0 Flammability: 1 Physical hazard: 0

Assessment of the hazard classes according to UN GHS criteria (most recent version):

Aquatic Acute 3 Hazardous to the aquatic environment - acute

Acute Tox. 5 (oral) Acute toxicity

16. Other Information

SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2025/08/05

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Revision date: 2025/08/05 Page: 11/11 Version: 4.0 (30035072/SDS_GEN_US/EN)

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Date / Revised: 2025/08/05 Version: 4.0
Date / Previous version: 2022/08/31 Previous version: 3.0

END OF DATA SHEET