

Safety Data Sheet Capsaicin, synthetic

Section 1: Identification

Product identifier

Product Name	Synthetic Capsaicin; Nonivamide, n-Vanillylnonanamide, PAVA
Product Code	CPSCN
Molecular Formula	C ₁₇ H ₂₇ NO ₃
Relevant identified uses of the substance or mixture and uses advised against	
Recommended use	Industrial chemical intermediate for manufacturing and formulation.
Use Restrictions:	Not for food, drug, cosmetic, or household use.
Detail of the supplier of the safety data sheet	
Manufacturer	China
Supplier/ Distributor	Chemical Store Inc. 1059 Main Avenue, Clifton, NJ 07011 Tel: 1(973)405-6248 Website: ChemicalStore.com Email: info@ChemicaStore.com
Emergency Telephone Number	+1 (973) 420 – 4972 (United States)

Section 2: Hazards Identification

United States (US)


According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012	Acute Toxicity (Oral): Category 4 (Harmful if swallowed) Skin Corrosion/Irritation: Category 2 (Causes skin irritation) Serious Eye Damage/Eye Irritation: Category 1 (Causes serious eye damage) Respiratory Sensitization: Category 1 (May cause allergy or asthma symptoms or breathing difficulties if inhaled) Skin Sensitization: Category 1 (May cause an allergic skin reaction)
---------------	--

Label elements

OSHA HCS 2012

Signal Word and Pictograms	 WARNING
Hazard statements	H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation
Precautionary statements	P261 Avoid breathing dust P264 Wash thoroughly after handling P270 Do not eat, drink or smoke when using this product P280 Wear protective gloves/eye protection P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell P305+P351+P338 IF IN EYES: Rinse cautiously with water P302+P352 IF ON SKIN: Wash with plenty of soap and water P403+P233 Store in a well-ventilated place. Keep container tightly closed
Response	P301+P316 IF SWALLOWED: Get emergency medical help immediately. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of water. P332+P317 If skin irritation occurs: Get medical help. P362+P364 Take off contaminated clothing and wash it before reuse. P333+P317 If skin irritation or rash occurs: Get medical help. P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P317 Get medical help. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P316 If experiencing respiratory symptoms: Get emergency medical help immediately.
Storage/Disposal	P403 Store in a well-ventilated place. P233 Keep container tightly closed. P501 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Other hazards OSHA HCS 2012	Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3: Composition/ Information on

Substance/

Mixtures

Hazardous Components					
Chemical Name	CAS Number	EINECS Number	% by weight		Comments
Nonivamide	2444-46-4	219-484-1	> 98%		

Section 4: First Aid Measures

Description of first aid measures

Inhalation	Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.
Skin	In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention
Eye	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Do NOT induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention.

Most important symptoms and effects, both acute and delayed

	Refer to Section 11 - Toxicological Information.
--	--

Indication of any immediate medical attention and special treatment needed

Notes to Physician	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
--------------------	--

Section 5: Fire Fighting Measures

Extinguishing media

Suitable Extinguishing Media	Regular foam, carbon dioxide, dry chemical
Unsuitable Extinguishing Media	Avoid the use of streaming water, as this may spread the fire

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Extremely flammable liquid and vapor. Vapors may form explosive mixtures with air. Vapor explosion hazard indoors, outdoors or in sewers. Vapors may travel to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous Combustion Products	Smoke, soot, fumes or vapors, oxides of carbon, various hydrocarbons

Advice for firefighters:

Structural firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk.

Use water spray to cool containers exposed to fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid dust formation. Avoid breathing dust. Avoid contacting with skin and eye. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Emergency Procedures	As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no

	smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.
--	---

Environmental precautions: Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

Containment/Clean-up Measures	Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
--------------------------------------	---

Section 7: Handling and Storage

Precautions for safe handling

Handling	Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.
-----------------	---

Conditions for safe storage, including any incompatibilities

Storage	Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.
Incompatible Materials or Ignition Sources	Keep away from heat, ignition sources oxidizers and strong acids.

Section 8: Exposure Control/ Personal Protection

Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

Exposure controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk elimination area.

Individual protection measures**Eye/face protection**

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

Section 9: Physical and Chemical Properties

Material Description			
Physical Form	Powder	Appearance/Description	
Color	White to off-white	Odor	No data available
Taste		Particulate Type	
Particulate Size		Aerosol Type	
Odor Threshold		Physical and Chemical Properties	
General Properties			
Boiling Point	250°C	Melting Point	49°C
Decomposition Temperature		Heat of Decomposition	
pH		Specific Gravity/Relative Density	
Density	1.037 g/cm ³	Bulk Density	
Water Solubility		Solvent Solubility	methanol: 100 mg/mL, clear to slightly hazy
Viscosity		Explosive Properties	
Oxidizing Properties:			
Volatility			
Vapor Pressure	2.48E-10mmHg at 25°C	Vapor Density	
Evaporation Rate		VOC (Wt.)	
VOC (Vol.)		Volatiles (Wt.)	
Volatiles (Vol.)			
Flammability			
Flash Point	190°C	UEL	
LEL		Autoignition	
Self-Accelerating		Heat of Combustion (ΔH _c)	

Decomposition Temperature (SADT)			
Burning Time		Flame Duration	
Flame Height		Flame Extension	
Ignition Distance		Flammability (solid, gas)	
Environmental			
Half-Life		Octanol/Water Partition coefficient	
Coefficient of water/oil distribution		Bioaccumulation Factor	
Bioconcentration Factor		Biochemical Oxygen Demand BOD/BOD5	
Chemical Oxygen Demand		Persistence	
Degradation			

Section 10: Stability and Reactivity

Reactivity

no data available

Chemical stability

no data available

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Incompatible materials

no data available

Hazardous decomposition products

no data available

Section 11: Toxicological Information

Acute toxicity

Oral: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

Sources for section 11: PubChem (NIH), ECHA (EU REACH dossiers), NIOSH Pocket Guide, EPA IRIS, OECD SIDS, ATSDR Toxicological Profiles

Section 12: Ecological Information

Toxicity	Material data lacking.
Persistence and degradability	Material data lacking.
Bio accumulative potential	Material data lacking.
Mobility in Soil	Material data lacking.
Other adverse effects Other Information	No studies have been found
Other information	No data is available on the adverse effects of this material on the environment. Aquatic toxicity values are expected to be in the range of 1 - 10 mg/l based upon data from components and similar products.

Section 13: Disposal Considerations

Waste treatment methods

Product waste	The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
Packaging waste	Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

Section 14: Transport Information

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations**49 CFR Road**

Not regulated as a dangerous good

Poison Inhalation Hazard : No

Special precautions for user

Remarks: Not classified as dangerous according to the transport regulations 49CFR.

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications: This material does not contain any components with a section 304 EHS RQ.

CERCLA Reportable Quantity:

This material does not contain any components with a CERCLA RQ.

Section 16: Other Information

Revision date: 2026-01-13

Initial preparation date: 2026-01-13

SDS version: 1.0

Supersedes: [No previous version number]

Change History

Version	Date	Description of Change
[1.0]	[2026-01-13]	Initial SDS creation

Version	Date	Description of Change
[1.1]	[YYYY-MM-DD]	[No updates yet!]

Abbreviations and Acronyms

Term	Meaning
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists
NIOSH	National Institute for Occupational Safety and Health
TWA	Time-Weighted Average
STEL	Short-Term Exposure Limit
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent and very Bioaccumulative

[Add additional abbreviations used in this SDS]

Key Literature and Data Sources

This Safety Data Sheet was prepared using information from the following sources:

- [ECHA / REACH database]
 - [NIOSH Pocket Guide]
 - [PubChem / NIH]
 - [OECD test data]
 - [Supplier technical data sheets]
 - [Scientific literature]
-

Hazard Classification Method

The classification of this substance was determined by:
Experimental data and publicly available resources

Disclaimer

The information provided in this Safety Data Sheet is believed to be accurate and represents the best information currently available. However, no warranty, express or implied, is made regarding its accuracy, completeness, or suitability for any particular purpose. The user is responsible for determining the applicability of this information to their specific use and for compliance with all applicable laws and regulations.

Prepared By

Company: Chemical Store Inc.

Address: 1059 Main Avenue, Clifton, NJ, 07011, USA

Telephone: 973-405-6248

Email: info@ChemicalStore.com

Website: ChemicalStore.com