

## Chemical Safety Data Sheet MSDS / SDS

**N-[12-[(7-NITRO-2-1,3-BENZOXADIAZOL-4-YL)AMINO]DODECANOYL]-  
CERAMIDE**

Revision Date:2026-04-26 Revision Number:1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name : N-[12-[(7-NITRO-2-1,3-BENZOXADIAZOL-4-YL)AMINO]DODECANOYL]-CERAMIDE  
CBnumber : CB4309134  
CAS : 202850-01-9  
Synonyms : C12-NBD Ceramide, N-[12-[(7-Nitro-2-1,3-benzoxadiazol-4-yl)amino]dodecanoyl]-ceramide,N-Dodecanoyl-NBD-D-erythro-sphingosine

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

**Company Identification**

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

**SECTION 2: Hazards identification****GHS Label elements, including precautionary statements**

Symbol(GHS) : No data available  
Signal word : No data available

**Precautionary statements**

No data available

**Hazard statements**

No data available

**SECTION 3: Composition/information on ingredients****Substance**

Product name : N-[12-[(7-NITRO-2-1,3-BENZOXADIAZOL-4-YL)AMINO]DODECANOYL]-CERAMIDE  
Synonyms : C12-NBD Ceramide, N-[12-[(7-Nitro-2-1,3-benzoxadiazol-4-yl)amino]dodecanoyl]-ceramide,N-

|     |               |
|-----|---------------|
| CAS | : 202850-01-9 |
| MF  | : C36H61N5O6  |
| MW  | : 659.9       |

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## SECTION 4: First aid measures

### Description of first aid measures

#### General information

No special measures required.

#### After inhalation

Supply fresh air; consult doctor in case of complaints.

#### After skin contact

Generally the product does not irritate the skin.

#### After eye contact

Rinse opened eye for several minutes under running water.

#### After swallowing

If symptoms persist consult doctor.

### Most important symptoms and effects, both acute and delayed

No further relevant information available.

### Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing agents

Use fire fighting measures that suit the environment.

A solid water stream may be inefficient.

#### Special hazards arising from the substance or mixture

No further relevant information available.

#### Advice for firefighters

#### Protective equipment

No special measures required.

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## SECTION 6: Accidental release measures

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

Not required.

### **Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

### **Methods and material for containment and cleaning up**

Pick up mechanically.

### **Protective Action Criteria for Chemicals**

#### **PAC-1**

Substance is not listed.

#### **PAC-2**

Substance is not listed.

#### **PAC-3**

Substance is not listed.

### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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## SECTION 7: Handling and storage

### **Precautions for safe handling**

No special measures required.

### **Information about protection against explosions and fires**

No special measures required.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage**

Store in accordance with information listed on the product insert.

### **Requirements to be met by storerooms and receptacles**

No special requirements.

### **Information about storage in one common storage facility**

Not required.

### **Further information about storage conditions**

None.

### **Specific end use(s)**

No further relevant information available.

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## **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

#### **Components with limit values that require monitoring at the workplace**

Not required.

#### **Additional information**

The lists that were valid during the creation were used as basis.

### **Exposure controls**

#### **Appropriate engineering controls**

No further data; see section 7.

#### **Personal protective equipment**

#### **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

#### **Breathing equipment**

Not required.

#### **Protection of hands**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye protection**

Not required.

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## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

#### Physical State

Solid

#### Color

Not determined.

#### Odor

Characteristic

#### Structural Formula

C<sub>36</sub>H<sub>61</sub>N<sub>5</sub>O<sub>6</sub>

#### Molecular Weight

659.9 g/mol

#### Storage Buffer

#### Odor Threshold

Not determined.

#### Formulation

#### Melting point/Melting range

Undetermined.

#### Boiling point/Boiling range

Undetermined.

#### Flammability

Product is not flammable.

#### Explosion limits

Lower: Not determined.

Upper: Not determined.

#### Flash point

Not applicable.

#### Decomposition temperature

Not determined.

## **pH**

Not applicable.

## **Viscosity**

## **Kinematic**

Not applicable.

## **SOLUBILITY**

DMF: 30 mg/ml; DMSO: 20 mg/ml; Ethanol: 20 mg/ml

## **Dynamic**

Not applicable.

## **Solubility in / Miscibility with**

DMF: 30 mg/ml; DMSO: 20 mg/ml; Ethanol: 20 mg/ml

## **Water**

Not determined.

## **Partition coefficient (n-octanol/water)**

Not determined.

## **Vapor Pressure**

Not applicable.

## **Density**

1.103±0.06 g/cm<sup>3</sup>(Predicted)

## **Relative Density**

1.103±0.06 g/cm<sup>3</sup>(Predicted)

## **Vapor Density**

Not applicable.

## **Particle characteristics**

Not determined.

## **Other information**

## **Appearance**

## **Form**

Solid

**Important information on protection of health and environment, and on safety.**

**Ignition temperature**

Not determined.

**Danger of explosion**

Product does not present an explosion hazard.

**Change in condition**

**Evaporation Rate**

Not applicable.

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## SECTION 10: Stability and reactivity

**Reactivity**

No further relevant information available.

**Chemical stability**

**Thermal decomposition / conditions to be avoided**

No decomposition if used according to specifications.

**Possibility of hazardous reactions**

No dangerous reactions known.

**Conditions to avoid**

No further relevant information available.

**Incompatible materials**

No further relevant information available.

**Hazardous decomposition products**

No dangerous decomposition products known.

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## SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**

**Primary irritant effect**

**on the skin**

No irritant effect.

#### **on the eye**

No irritating effect.

#### **Sensitization**

No sensitizing effects known.

#### **Additional toxicological information**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

#### **Interactive effects**

No interactive effects between components are known.

#### **Carcinogenic categories**

##### **IARC (International Agency for Research on Cancer)**

Substance is not listed.

##### **NTP (National Toxicology Program)**

Substance is not listed.

##### **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

#### **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

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## SECTION 12: Ecological information

### **Toxicity**

#### **Aquatic toxicity**

No further relevant information available.

#### **Persistence and degradability**

No further relevant information available.

#### **Bioaccumulative potential**

No further relevant information available.

#### **Mobility in soil**

No further relevant information available.



## Results of PBT and vPvB assessment

### PBT

Not applicable.

### vPvB

Not applicable.

### PBT:

Not applicable.

### vPvB:

Not applicable.

### Other adverse effects

## Additional ecological information

### General notes

Water hazard class 1 (Self-assessment) slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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## SECTION 13: Disposal considerations

### Waste treatment methods

#### Recommendation

Smaller quantities can be disposed of with household waste.

#### Uncleaned packagings

#### Recommendation

Disposal must be made according to official regulations.

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## SECTION 14: Transport information

### UN-Number

DOT, IMDG, IATA not regulated

### UN proper shipping name

DOT, IMDG, IATA not regulated

### Transport hazard class(es)

DOT, ADN, IMDG, IATA

Class not regulated

### Packing group

DOT, IMDG, IATA not regulated

### Environmental hazards

Not applicable.

### Special precautions for user

Not applicable.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

MARPOL73/78 and the IBC Code Not applicable.

### UN "Model Regulation"

not regulated

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## SECTION 15: Regulatory information

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

No further relevant information available.

### Sara

|                                                             |                          |
|-------------------------------------------------------------|--------------------------|
| Section 355 (extremely hazardous substances):               | Substance is not listed. |
| Section 313 (Specific toxic chemical listings):             | Substance is not listed. |
| TSCA (Toxic Substances Control Act):                        | Substance is not listed. |
| Hazardous Air Pollutants:                                   | Substance is not listed. |
| Chemicals known to cause cancer:                            | Substance is not listed. |
| Chemicals known to cause reproductive toxicity for females: | Substance is not listed. |
| Chemicals known to cause reproductive toxicity for males:   | Substance is not listed. |
| Chemicals known to cause developmental toxicity:            | Substance is not listed. |

### Carcinogenic categories

|                                        |                          |
|----------------------------------------|--------------------------|
| EPA (Environmental Protection Agency): | Substance is not listed. |
|----------------------------------------|--------------------------|

### TLV (Threshold Limit Value)

Substance is not listed.

### NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

### Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

### Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

#### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.