

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Vazo™ 64 Free Radical Source

Version 7.0      Revision Date: 2025/05/21      SDS Number: 1331007-00044      Date of last issue: 2024/10/16  
Date of first issue: 2017/02/27

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Vazo™ 64 Free Radical Source  
SDS-Identcode : 130000027350

#### Manufacturer or supplier's details

Company : The Chemours Chemical (Shanghai) Co., Ltd.  
Address : 9F, SCG Parkside, 868 Yinghua Road, Pudong New District  
201204, Shanghai, China  
Telephone : 86 400 8056 528  
Emergency telephone number : 86 532 8388 9090  
E-mail address : SDS.ChinaPSR@chemours.com  
Telefax : 86 21 2612 0862

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

Recommended use : Intermediate  
Restrictions on use : For industrial use only.

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance : solid, crystalline  
Colour : white  
Odour : odourless

Heating may cause a fire. Harmful if swallowed or if inhaled. Harmful to aquatic life with long lasting effects.

#### GHS Classification

Self-reactive substances and mixtures : Type C  
Acute toxicity (Oral) : Category 4  
Acute toxicity (Inhalation) : Category 4  
Long-term (chronic) aquatic hazard : Category 3



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### GHS label elements

Hazard pictograms	:	 
Signal word	:	Danger
Hazard statements	:	H242 Heating may cause a fire. H302 + H332 Harmful if swallowed or if inhaled. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P234 Keep only in original container. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin 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/ hearing protection. <b>Response:</b> P301 + P317 + P330 IF SWALLOWED: Get medical help. Rinse mouth. P304 + P340 + P317 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help. <b>Storage:</b> P403 Store in a well-ventilated place. P411 Store at temperatures not exceeding 24 °C/ 75 °F. P420 Store away from other materials. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

### Physical and chemical hazards

Heating may cause a fire.

### Health hazards

Harmful if swallowed. Harmful if inhaled.

### Environmental hazards

Harmful to aquatic life with long lasting effects.



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### Other hazards which do not result in classification

Risk of explosion if heated under confinement.  
Dust contact with the eyes can lead to mechanical irritation.  
Contact with dust can cause mechanical irritation or drying of the skin.  
May form explosive dust-air mixture.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance  
Substance name : 2,2'-Dimethyl-2,2'-azodipropionitrile  
CAS-No. : 78-67-1

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
2,2'-Dimethyl-2,2'-azodipropionitrile	78-67-1	>= 90 -<= 100
Methacrylonitrile	126-98-7	>= 0.1 -< 0.2
Isobutyronitrile	78-82-0	>= 0.1 -< 1

### 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap.  
Get medical attention if symptoms occur.

In case of eye contact : If in eyes, rinse well with water.  
Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.  
Get medical attention.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : Eye contact may provoke the following symptoms  
Irritation  
tearing  
Redness  
Discomfort  
Ingestion may provoke the following symptoms:



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Weakness  
Tremors  
Convulsions  
Gastrointestinal disturbance  
Contact with dust can cause mechanical irritation or drying of the skin.  
Dust contact with the eyes can lead to mechanical irritation.  
Harmful if swallowed or if inhaled.

Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Notes to physician : Treat symptomatically and supportively.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray  
Alcohol-resistant foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.  
Do not use a solid water stream as it may scatter and spread fire.  
The product burns violently.  
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NOx)

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.  
Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Clear spills immediately.  
Take any precaution to avoid mixing with combustibles.  
Soak up with inert absorbent material.  
Remove mechanically and with care (e.g. with clean polyethylene plastic shovel).  
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).  
Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.  
Isolate waste and do not reuse.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

## 7. HANDLING AND STORAGE

### Handling

- Technical measures : Static electricity may accumulate and ignite suspended dust causing an explosion.  
Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
- Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.  
If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.
- Advice on safe handling : Do not breathe decomposition products.  
  
Avoid breathing dust, fume, gas, mist, vapours or spray.  
Do not swallow.  
Avoid contact with eyes.  
Avoid prolonged or repeated contact with skin.



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Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Non-sparking tools should be used.  
Prevent pressure build-up  
Keep container tightly closed.  
Protect from contamination.  
Minimize dust generation and accumulation.  
Keep container closed when not in use.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take precautionary measures against static discharges.  
Do not eat, drink or smoke when using this product.  
Keep only in original packaging.  
Take care to prevent spills, waste and minimize release to the environment.

Avoidance of contact : Oxidizing agents  
Avoid impurities (e.g. rust, dust, ash), risk of decomposition.  
Flammable materials

### Storage

Conditions for safe storage : Keep in properly labelled containers.  
Keep tightly closed.  
Keep in a dry, cool and well-ventilated place.  
Protect from sunlight.  
Adhere to recommended storage temperature.  
Store in accordance with the particular national regulations.  
Keep away from heat and sources of ignition.

Store in original container.

Materials to avoid : Do not store with the following product types:  
Oxidizing agents  
Flammable gases  
Flammable liquids  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substances and mixtures, which in contact with water, emit flammable gases  
Poisonous gases  
Explosives  
Corrosive Substances

Recommended storage temperature : < 24 °C



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Packaging material : Unsuitable material: None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,2'-Dimethyl-2,2'-azodipropionitrile	78-67-1	MAC	1 mg/m <sup>3</sup> (Cyanide)	CN OEL
	Further information: Skin			
Methacrylonitrile	126-98-7	PC-TWA	3 mg/m <sup>3</sup>	CN OEL
	Further information: Skin			
		TWA	1 ppm	ACGIH

#### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Tetramethylsuccinonitrile	3333-52-6	MAC	1 mg/m <sup>3</sup> (Cyanide)	CN OEL
	Further information: Skin			
		TWA (Inhalable fraction and vapor)	0.5 mg/m <sup>3</sup>	ACGIH

**Engineering measures** : Processing may form hazardous compounds (see section 10).  
Minimize workplace exposure concentrations.  
Apply measures to prevent dust explosions.  
Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).  
If sufficient ventilation is unavailable, use with local exhaust ventilation.  
If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

#### Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type : Particulates type

Eye/face protection : Wear the following personal protective equipment:



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- Safety goggles
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Wear the following personal protective equipment:  
If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- Hand protection  
Material : Neoprene
- Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often!
- Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : solid, crystalline
- Colour : white
- Odour : odourless
- Odour Threshold : No data available
- pH : 7
- Melting point/freezing point : 100 °C  
Do not attempt to verify melting point; decomposition can be violent.
- Initial boiling point and boiling : No data available



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range

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : May form explosive dust-air mixture.

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : 0.02 %(V)

Vapour pressure : 0.0081 hPa (25 °C)

Relative vapour density : Not applicable

Relative density : 1.13 (25 °C)

Bulk density : 400 kg/m<sup>3</sup>

Solubility(ies)

Water solubility : < 10 g/l

Solubility in other solvents : 18 g/l (0 °C)  
Solvent: Methanol

49.6 g/l (20 °C)  
Solvent: Methanol

160.6 g/l (40 °C)  
Solvent: Methanol

5.8 g/l (0 °C)  
Solvent: Ethanol

20.4 g/l (20 °C)  
Solvent: Ethanol

71.5 g/l (40 °C)  
Solvent: Ethanol

Partition coefficient: n-octanol/water : log Pow: 1.1 (25 °C)

Auto-ignition temperature : 295 °C

Decomposition temperature : The product is a self-reactive substance or mixture classified as type C.



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Self-Accelerating decomposition temperature (SADT) : 50 °C

Viscosity  
Viscosity, kinematic : Not applicable

Explosive properties : Extreme risk of explosion by shock, friction, fire or other sources of ignition.

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle characteristics  
Particle size : No data available

### 10. STABILITY AND REACTIVITY

Reactivity : Heating may cause a fire.

Chemical stability : Follow precautionary advice and avoid incompatible materials and conditions

Possibility of hazardous reactions : May form explosive dust-air mixture.  
Oxidizing material can cause a reaction.  
Hazardous decomposition products will be formed at elevated temperatures.  
May explode under confinement.

Conditions to avoid : Heat, flames and sparks.  
Protect from contamination.  
Avoid shock and friction.  
Avoid dust formation.  
Temperatures greater than recommended storage temperature.  
Contact with incompatible substances can cause decomposition at or below SADT.

Incompatible materials : Oxidizing agents  
Avoid impurities (e.g. rust, dust, ash), risk of decomposition.  
Flammable materials

#### Hazardous decomposition products

Thermal decomposition : Tetramethylsuccinonitrile

### 11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation



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Skin contact  
Ingestion  
Eye contact

### Acute toxicity

Harmful if swallowed or if inhaled.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 495.19 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

#### Components:

##### **2,2'-Dimethyl-2,2'-azodipropionitrile:**

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgement  
Remarks: Based on national or regional regulation.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

##### **Methacrylonitrile:**

Acute oral toxicity : LD50 (Rat): 64 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 1.09 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): 280 mg/kg

##### **Isobutyronitrile:**

Acute oral toxicity : LD50 (Rat): 50 mg/kg



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Acute inhalation toxicity : LC50 (Rat): > 2 - 10 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 200 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### 2,2'-Dimethyl-2,2'-azodipropionitrile:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### 2,2'-Dimethyl-2,2'-azodipropionitrile:

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

### Methacrylonitrile:

Species : Rabbit  
Result : No eye irritation

### Isobutyronitrile:

Result : Irritation to eyes, reversing within 21 days  
Remarks : Based on national or regional regulation.

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### 2,2'-Dimethyl-2,2'-azodipropionitrile:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406



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Result : negative

### Methacrylonitrile:

Assessment : Probability or evidence of skin sensitisation in humans  
Remarks : Based on national or regional regulation.

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### 2,2'-Dimethyl-2,2'-azodipropiononitrile:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

#### Methacrylonitrile:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: positive  
  
Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
  
Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Rat  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
  
Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ  
cell mutagen.

#### Isobutyronitrile:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
  
Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials  
  
Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative



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### Carcinogenicity

Not classified based on available information.

### Components:

#### Methacrylonitrile:

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative

### Reproductive toxicity

Not classified based on available information.

### Components:

#### 2,2'-Dimethyl-2,2'-azodipropionitrile:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

#### Methacrylonitrile:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

### STOT - single exposure

Not classified based on available information.



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### Components:

#### **Methacrylonitrile:**

Exposure routes : inhalation (vapour)  
Target Organs : Central nervous system  
Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/l/4h or less.

#### **Isobutyronitrile:**

Assessment : May cause damage to organs.  
Remarks : Based on national or regional regulation.

Assessment : May cause respiratory irritation.  
Remarks : Based on national or regional regulation.

#### **STOT - repeated exposure**

Not classified based on available information.

### Components:

#### **Methacrylonitrile:**

Exposure routes : inhalation (vapour)  
Assessment : No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

#### **Repeated dose toxicity**

### Components:

#### **2,2'-Dimethyl-2,2'-azodipropionitrile:**

Species : Rat  
NOAEL : 10 mg/kg  
Application Route : Ingestion  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408

#### **Methacrylonitrile:**

Species : Rat  
NOAEL : 0.054 - 0.144 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 91 Days

#### **Aspiration toxicity**

Not classified based on available information.



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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **2,2'-Dimethyl-2,2'-azodipropionitrile:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 367 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to microorganisms : EC50: > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

##### **Ecotoxicology Assessment**

- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.  
Remarks: Based on national or regional regulation.

##### **Methacrylonitrile:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 354 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 205 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 15.1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- NOEC (Selenastrum capricornutum (green algae)): 1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 2.2 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

##### **Isobutyronitrile:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h



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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

### Persistence and degradability

#### Components:

##### **2,2'-Dimethyl-2,2'-azodipropionitrile:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: < 10 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **Methacrylonitrile:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 83 - 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

##### **Isobutyronitrile:**

Biodegradability : Result: Not readily biodegradable.  
BOD/COD : BOD/COD: 28 %

### Bioaccumulative potential

#### Components:

##### **2,2'-Dimethyl-2,2'-azodipropionitrile:**

Partition coefficient: n-octanol/water : log Pow: 1.1

##### **Methacrylonitrile:**

Partition coefficient: n-octanol/water : log Pow: 0.68

##### **Isobutyronitrile:**

Partition coefficient: n-octanol/water : log Pow: 0.46



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Vazo™ 64 Free Radical Source

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### Mobility in soil

No data available

### Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

- UN number : UN 3234  
Proper shipping name : SELF-REACTIVE SOLID TYPE C, TEMPERATURE CONTROLLED (2,2'-AZODI(ISOBUTYRONITRILE))
- ||Class : 4.1  
Packing group : Not assigned by regulation  
||Labels : 4.1  
Environmentally hazardous : no

#### IATA-DGR

Not permitted for transport

#### IMDG-Code

- UN number : UN 3234  
Proper shipping name : SELF-REACTIVE SOLID TYPE C, TEMPERATURE CONTROLLED (2,2'-AZODI(ISOBUTYRONITRILE))
- ||Class : 4.1  
Packing group : Not assigned by regulation  
||Labels : 4.1  
EmS Code : F-F, S-K  
Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

GB 6944/12268



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according to GB/T 16483 and GB/T 17519



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UN number : UN 3234  
Proper shipping name : SELF-REACTIVE SOLID TYPE C, TEMPERATURE CONTROLLED (2,2'-AZODI(ISOBUTYRONITRILE))  
Class : 4.1  
Packing group : Not assigned by regulation  
Labels : 4.1  
Marine pollutant : no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. REGULATORY INFORMATION

### National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

#### Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed

#### Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)

No. / Code	Chemical name / Category	Threshold quantity
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W6.2	Self-reactive substances and mixtures	50 t
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Hazardous Chemicals for Priority Management under SAWS : Listed

Catalogue of Specially Controlled Hazardous Chemicals : Not listed

List of Explosive Precursors : Not listed

#### Regulations on Labour Protection in Workplaces where Toxic Substances are Used

Catalogue of Highly Toxic Chemicals : Listed

#### Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import and Export : Not listed

#### Regulation on the Administration of Precursor Chemicals

Catalogue and Classification of Precursor Chemicals : Not listed

#### Yangtze River Protection Law

This product is prohibited only for bulk transport in inland river.



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### Regulations of Ozone Depleting Substances Management

List of Controlled Ozone Depleting Substances Import and Export : Not listed  
List of Controlled Ozone Depleting Substances : Not listed

### Environmental Protection Law

List of Priority Controlled Chemicals : Listed  
List of Key Controlled New Pollutants : Not listed

## 16. OTHER INFORMATION

Revision Date : 2025/05/21

Other information : Vazo™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC. Chemours™ and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information. For further information contact the local Chemours office or nominated distributors.

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : yyyy/mm/dd

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
CN OEL : Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

ACGIH / TWA : 8-hour, time-weighted average  
CN OEL / PC-TWA : Permissible concentration - time weighted average  
CN OEL / MAC : Maximum allowable concentration

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys-

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tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

CN / EN

