

# SAFETY DATA SHEET



## Vazo™ 67

Version	Revision Date:	SDS Number:	Date of last issue: 19.07.2022
10.1	18.10.2022	1325296-00046	Date of first issue: 27.02.2017

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Vazo™ 67

SDS-Identcode : 130000000273

REACH Registration Number : 01-2119970183-38-0000

Substance name : 2,2'-Azodi(2-methylbutyronitrile)

EC-No. : 236-740-8

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

Use of the Sub-  
stance/Mixture : Intermediate

Recommended restrictions  
on use : For industrial use only.

#### 1.3 Details of the supplier of the safety data sheet

Company : Chemours Netherlands B.V.  
Baanhoekweg 22  
3313 LA Dordrecht Netherlands

Telephone : +31-(0)-78-630-1011

Telefax : +31-78-6163737

E-mail address of person  
responsible for the SDS : sds-support@chemours.com

#### 1.4 Emergency telephone number

+(44)-870-8200418 (CHEMTREC - Recommended)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Self-reactive substances and mixtures, Type D H242: Heating may cause a fire.

Acute toxicity, Category 4 H302: Harmful if swallowed.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Danger

Hazard statements : H242 Heating may cause a fire.  
H302 Harmful if swallowed.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P235 Keep cool.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Storage:**  
P411 Store at temperatures not exceeding 24 °C/ 75 °F.  
P420 Store separately.

### 2.3 Other hazards

This substance/mixture 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.  
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.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : 2,2'-Azodi(2-methylbutyronitrile)  
EC-No. : 236-740-8

#### Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
2,2'-Azodi(2-methylbutyronitrile)	13472-08-7 236-740-8	>= 90 - <= 100

## SECTION 4: First aid measures

### 4.1 Description of 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

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advice.

- |                            |   |   |
|----------------------------|---|---|
| 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).                                   |
| If inhaled                 | : | If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.  |
| In case of skin contact    | : | Wash with water and soap.<br>Get medical attention if symptoms occur.   |
| In case of eye contact     | : | If in eyes, rinse well with water.<br>Get medical attention if irritation develops and persists.  |
| If swallowed               | : | If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.<br>Get medical attention.<br>Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person. |

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

- |          |   |   |
|----------|---|---|
| Symptoms | : | Eye contact may provoke the following symptoms<br>Irritation<br>Pain<br>tearing<br>Impairment of vision<br><br>Ingestion may provoke the following symptoms:<br>Tremors<br>Lack of coordination<br>Lethargy<br>central nervous system effects |
| Risks    | : | Harmful if swallowed.<br><br>Contact with dust can cause mechanical irritation or drying of the skin.<br>Dust contact with the eyes can lead to mechanical irritation.  |

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

- |           |   |   |
|-----------|---|---|
| Treatment | : | Treat symptomatically and supportively. |
|-----------|---|---|
- 

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                                |   |                                       |
|--------------------------------|---|---------------------------------------|
| Suitable extinguishing media   | : | Water spray<br>Alcohol-resistant foam |
| Unsuitable extinguishing media | : | High volume water jet                 |

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**5.2 Special hazards arising from the substance or mixture**

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 : Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides

**5.3 Advice for firefighters**

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

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.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Remove all sources of ignition.  
Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

**6.2 Environmental precautions**

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.

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

Methods for 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 dis-

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posal 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.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- |                         |   |   |
|-------------------------|---|---|
| Technical measures      | : | Static electricity may accumulate and ignite suspended dust causing an explosion.<br>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.  |
| Local/Total ventilation | : | Use only with adequate ventilation.<br>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.<br><br>Do not breathe dust.<br>Do not swallow.<br>Avoid contact with eyes.<br>Avoid prolonged or repeated contact with skin.<br>Wash skin thoroughly after handling.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>Non-sparking tools should be used.<br>Prevent pressure build-up<br>Protect container from physical shock.<br>Protect from contamination.<br>Minimize dust generation and accumulation.<br>Keep container closed when not in use.<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>Keep away from clothing and other combustible materials.<br>Take precautionary measures against static discharges.<br>Do not eat, drink or smoke when using this product.<br>Keep only in original packaging.<br>Take care to prevent spills, waste and minimize release to the environment. |
| 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.  |

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

Requirements for storage areas and containers : Keep in properly labelled containers. Store in original container. 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.

Advice on common storage : Store away from other materials.

Recommended storage temperature : < 24 °C

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Hydrogen cyanide	74-90-8	STEL	4,5 ppm 5 mg/m <sup>3</sup> (Cyanide)	2017/164/EU
		TWA	0,9 ppm 1 mg/m <sup>3</sup> (Cyanide)	2017/164/EU
Carbon monoxide	630-08-0	STEL	100 ppm 117 mg/m <sup>3</sup>	2017/164/EU
		TWA	20 ppm 23 mg/m <sup>3</sup>	2017/164/EU
Carbon dioxide	124-38-9	TWA	5.000 ppm 9.000 mg/m <sup>3</sup>	2006/15/EC

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2,2'-Azodi(2-methylbutyronitrile)	Workers	Inhalation	Long-term systemic effects	0,35 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	485,4 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2,2'-Azodi(2-methylbutyronitrile)	Fresh water	0,052 mg/l
	Marine water	0,005 mg/l
	Intermittent use/release	0,519 mg/l
	Fresh water sediment	0,84 mg/kg dry weight (d.w.)

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	Fresh water sediment	0,084 mg/kg dry weight (d.w.)
	Sewage treatment plant	117 mg/l
	Soil	0,14 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Engineering measures

Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas.

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 advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

#### Personal protective equipment

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

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!

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).

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

Filter type : Self-contained breathing apparatus

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance	:	solid, crystalline
Colour	:	white
Odour	:	odourless
Odour Threshold	:	No data available
pH	:	7
Melting point/freezing point	:	49,4 °C Do not attempt to verify melting point; decomposition can be violent.
Initial boiling point and boiling range	:	No data available
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	:	0,03 - 0,04 %(V)
Vapour pressure	:	0,00354 hPa (25 °C)
Relative vapour density	:	Not applicable
Relative density	:	1,1 (25 °C)
Bulk density	:	400 kg/m <sup>3</sup>
Solubility(ies) Water solubility	:	< 10 g/l
Partition coefficient: n-octanol/water	:	log Pow: 2,07 (20 °C)
Auto-ignition temperature	:	185 °C
Decomposition temperature	:	The product is a self-reactive substance or mixture classified as type D.
Viscosity Viscosity, kinematic	:	Not applicable



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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.

### 9.2 Other information

Self-Accelerating decomposition temperature (SADT) : 45 °C

Particle size : No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Heating may cause a fire.

### 10.2 Chemical stability

Follow precautionary advice and avoid incompatible materials and conditions

### 10.3 Possibility of hazardous reactions

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.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

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

### 10.6 Hazardous decomposition products

Thermal decomposition : Hydrogen cyanide  
Nitrogen  
Carbon monoxide  
Carbon dioxide

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of : Inhalation

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exposure

Skin contact  
Ingestion  
Eye contact

### Acute toxicity

Harmful if swallowed.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 338,35 mg/kg  
Method: Calculation method

#### Components:

##### **2,2'-Azodi(2-methylbutyronitrile):**

Acute oral toxicity : LD50 (Rat): 337 mg/kg  
Method: OECD Test Guideline 401

Acute toxicity estimate: 337 mg/kg  
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): > 8,9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### **2,2'-Azodi(2-methylbutyronitrile):**

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'-Azodi(2-methylbutyronitrile):**

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

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### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

##### 2,2'-Azodi(2-methylbutyronitrile):

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

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: negative
Remarks	: Based on data from similar materials

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### 2,2'-Azodi(2-methylbutyronitrile):

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
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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  
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment	: Weight of evidence does not support classification as a germ cell mutagen.
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### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

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### STOT - single exposure

Not classified based on available information.

#### Components:

##### **2,2'-Azodi(2-methylbutyronitrile):**

Exposure routes	: Ingestion
Assessment	: No significant health effects observed in animals at concentrations of 2000 mg/kg bw or less

Exposure routes	: inhalation (dust/mist/fume)
Assessment	: No significant health effects observed in animals at concentrations of 5.0 mg/l/4h or less

Exposure routes	: Skin contact
Assessment	: No significant health effects observed in animals at concentrations of 2000 mg/kg bw or less

### STOT - repeated exposure

Not classified based on available information.

#### Components:

##### **2,2'-Azodi(2-methylbutyronitrile):**

Exposure routes	: Ingestion
Assessment	: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

### Repeated dose toxicity

#### Components:

##### **2,2'-Azodi(2-methylbutyronitrile):**

Species	: Rat, male and female
NOAEL	: 10 mg/kg
LOAEL	: 50 mg/kg
Application Route	: Ingestion
Exposure time	: 42 Days
Method	: OECD Test Guideline 422
Remarks	: Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **2,2'-Azodi(2-methylbutyronitrile):**

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 580 mg/l
	Exposure time: 96 h
	Method: OECD Test Guideline 203

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Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 51,9 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 67 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 12,5 mg/l  
Exposure time: 3 d  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 10 mg/l  
Exposure time: 14 d  
Species: Oryzias latipes (Japanese medaka)  
Method: OECD Test Guideline 204  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2,2 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### 12.2 Persistence and degradability

#### Components:

##### **2,2'-Azodi(2-methylbutyronitrile):**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301D  
Remarks: Based on data from similar materials

### 12.3 Bioaccumulative potential

#### Components:

##### **2,2'-Azodi(2-methylbutyronitrile):**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture 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.

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### 12.6 Other adverse effects

#### Product:

Endocrine disrupting potential : The substance/mixture 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.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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.

## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 3236  
ADR : UN 3236  
RID : UN 3236  
Not permitted for transport  
IMDG : UN 3236  
IATA : UN 3236  
Not permitted for transport

### 14.2 UN proper shipping name

ADN : SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED (2,2'-AZODI(2-METHYLBUTYRONITRILE))  
ADR : SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED (2,2'-AZODI(2-METHYLBUTYRONITRILE))  
RID : SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED (2,2'-AZODI(2-METHYLBUTYRONITRILE))  
Not permitted for transport  
IMDG : SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED (2,2'-AZODI(2-METHYLBUTYRONITRILE))  
IATA : SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED (2,2'-AZODI (2-METHYLBUTYRONITRILE))  
Not permitted for transport

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### 14.3 Transport hazard class(es)

<b>ADN</b>	:	4.1
<b>ADR</b>	:	4.1
<b>RID</b>	:	Not permitted for transport
<b>IMDG</b>	:	4.1
<b>IATA</b>	:	Not permitted for transport

### 14.4 Packing group

<b>ADN</b>	
Packing group	: Not assigned by regulation
Classification Code	: SR2
Labels	: 4.1
<b>ADR</b>	
Packing group	: Not assigned by regulation
Classification Code	: SR2
Labels	: 4.1
Tunnel restriction code	: (D)
<b>RID</b>	: Not permitted for transport
<b>IMDG</b>	
Packing group	: Not assigned by regulation
Labels	: 4.1
EmS Code	: F-F, S-K
<b>IATA (Cargo)</b>	: Not permitted for transport
<b>IATA (Passenger)</b>	: Not permitted for transport

### 14.5 Environmental hazards

<b>ADN</b>	
Environmentally hazardous	: no
<b>ADR</b>	
Environmentally hazardous	: no
<b>RID</b>	: Not permitted for transport
<b>IMDG</b>	
Marine pollutant	: no

### 14.6 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.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks	: Not applicable for product as supplied.
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### SECTION 15: Regulatory information

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

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

### SECTION 16: Other information

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. Samples of 100 grams or less per package may ship as UN3226 without temperature control per CA-1998100007.

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

#### Full text of other abbreviations

2006/15/EC	: Europe. Indicative occupational exposure limit values
2017/164/EU	: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
2006/15/EC / TWA	: Limit Value - eight hours
2017/164/EU / STEL	: Short term exposure limit
2017/164/EU / TWA	: Limit Value - eight hours

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; GHS - Globally Harmonized System; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office



# SAFETY DATA SHEET



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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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

### 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/>

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.

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