

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Vazo™ 52G

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 01/12/2024 |
| 11.0 | 05/07/2025 | 1331764-00047 | Date of first issue: 02/27/2017 |

SECTION 1. IDENTIFICATION

Product name : Vazo™ 52G

SDS-Identcode : 130000030497

Manufacturer or supplier's details

Company name of supplier : The Chemours Company FC, LLC

Address : 1007 Market Street
Wilmington, DE 19801 United States of America (USA)

Telephone : 1-844-773-CHEM (outside the U.S. 1-302-773-1000)

Emergency telephone : Medical emergency: 1-866-595-1473 (outside the U.S. 1-302-773-2000) ; Transport emergency: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

Recommended use of the chemical and restrictions on use

Recommended use : Intermediate

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Self-reactive chemicals : Type D



Combustible dust

Skin sensitization : Sub-category 1A

Other hazards

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.

GHS label elements

Hazard pictograms :  

Signal Word : Danger

Hazard Statements : H242 Heating may cause a fire.
May form combustible dust concentrations in air.

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| | | |
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| | | H317 May cause an allergic skin reaction. |
| Precautionary Statements | : | Prevention: P210 Keep away from heat, sparks, open flame and hot surfaces. No smoking. P234 Keep only in original packaging. P261 Avoid breathing dust, fume, gas, mist, vapors or spray. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves, protective clothing, eye protection and face protection. Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical attention. Storage: P403 + P235 Store in a well-ventilated place. Keep cool. P411 Store at temperatures not exceeding 10 °C/ 50 °F. P420 Store separately. Disposal: P501 Dispose of contents and container to an approved waste disposal plant. |

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | |
|---------------------|---|---------------------------------------|
| Substance / Mixture | : | Substance |
| Substance name | : | 2,2'-Azodi[2,4-Dimethylvaleronitrile] |
| CAS-No. | : | 4419-11-8 |

Components

| Chemical name | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|---------------------------------------|-------------------|-----------------------|--------------|
| 2,2'-Azodi[2,4-Dimethylvaleronitrile] | 4419-11-8* | >= 80 - <= 100 | TSC |

* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

SECTION 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. Get medical attention if symptoms occur. |

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- | | |
|---|--|
| In case of skin contact | : In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| 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. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. |
| Most important symptoms and effects, both acute and delayed | : Skin contact may provoke the following symptoms: Discomfort Itching Redness Swelling of tissue Eye contact may provoke the following symptoms Irritation tearing Redness Discomfort Ingestion may provoke the following symptoms: Gastrointestinal disturbance Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. May cause an allergic skin reaction. |
| 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. |

SECTION 5. FIRE-FIGHTING 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. |

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- The product burns violently.
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Nitrogen oxides (NO_x)
Carbon oxides
- 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 fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 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.

SECTION 7. HANDLING AND STORAGE

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- 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 : Use only with adequate 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.

Do not get on skin or clothing.
Avoid breathing dust, fume, gas, mist, vapors or spray.
Do not swallow.
Avoid contact with eyes.
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
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.
Keep only in original packaging.
Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Keep in properly labeled 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.
- Materials to avoid : Store away from other materials.
- Recommended storage temperature : < 50 °F / < 10 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---------------------------------------|-----------|----------------------------------|--|----------|
| 2,2'-Azodi[2,4-Dimethylvaleronitrile] | 4419-11-8 | TWA | 5 mg/m ³ (Cyanide) | OSHA Z-1 |

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| | | | | |
|--|--|---|---|-----------|
| | | C | 4.7 ppm 5 mg/m ³ (Cyanide) | NIOSH REL |
|--|--|---|---|-----------|

Occupational exposure limits of decomposition products

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|------------------|----------|----------------------------------|--|-----------|
| Hydrogen cyanide | 74-90-8 | C | 4.7 ppm (Cyanide) | ACGIH |
| | | ST | 4.7 ppm 5 mg/m ³ | NIOSH REL |
| | | TWA | 10 ppm 11 mg/m ³ | OSHA Z-1 |
| Carbon monoxide | 630-08-0 | TWA | 25 ppm | ACGIH |
| | | TWA | 35 ppm 40 mg/m ³ | NIOSH REL |
| | | C | 200 ppm 229 mg/m ³ | NIOSH REL |
| | | TWA | 50 ppm 55 mg/m ³ | OSHA Z-1 |
| Carbon dioxide | 124-38-9 | TWA | 5,000 ppm | ACGIH |
| | | STEL | 30,000 ppm | ACGIH |
| | | TWA | 5,000 ppm 9,000 mg/m ³ | NIOSH REL |
| | | ST | 30,000 ppm 54,000 mg/m ³ | NIOSH REL |
| | | TWA | 5,000 ppm 9,000 mg/m ³ | OSHA Z-1 |

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

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided

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by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! 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.

Eye protection : Wear the following personal protective equipment:
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).

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.
Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Color : white

Odor : odorless

Odor Threshold : No data available

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| | | |
|--|---|---|
| pH | : | 7 |
| Melting point/freezing point | : | > 122 °F / > 50 °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 | : | 0 (Butyl Acetate=1.0) |
| 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 %(V) |
| Vapor pressure | : | Not applicable |
| Relative vapor density | : | Not applicable |
| Relative density | : | 0.969 |
| Bulk density | : | 400 kg/m ³ |
| Solubility(ies) Water solubility | : | >= 0.00937 g/l (68 °F / 20 °C) |
| Partition coefficient: n-octanol/water | : | log Pow: 3.319 (68 °F / 20 °C) |
| Autoignition temperature | : | 437 °F / 225 °C |
| Decomposition temperature | : | The product is a self-reactive substance or mixture classified as type D. |
| Self-Accelerating decomposition temperature (SADT) | : | 77 °F / 25 °C |
| Viscosity Viscosity, kinematic | : | Not applicable |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |
| Particle characteristics | | |

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Particle size : No data available

SECTION 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 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 : Hydrogen cyanide
Nitrogen
Carbon monoxide
Carbon dioxide

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

| | |
|---------------------------|--|
| Acute oral toxicity | : LD50 (Mouse): > 6,000 mg/kg Method: Expert judgment |
| Acute inhalation toxicity | : Approximate Lethal Concentration (Rat): 9.3 mg/l |

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Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

Skin corrosion/irritation

Not classified based on available information.

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

| | |
|---------|---------------------------|
| Species | : Tissue Culture |
| Method | : OECD Test Guideline 439 |
| Result | : No skin irritation |

Serious eye damage/eye irritation

Not classified based on available information.

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

| | |
|---------|---------------------------|
| Species | : Bovine cornea |
| Result | : No eye irritation |
| Method | : OECD Test Guideline 437 |

| | |
|---------|---------------------------|
| Species | : Not tested on animals |
| Result | : No eye irritation |
| Method | : OECD Test Guideline 492 |

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

| | |
|------------|---|
| Assessment | : Probability or evidence of high skin sensitization rate in humans |
|------------|---|

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

| | |
|--------------------|--|
| Test Type | : Direct Peptide Reactivity Assay (DPRA) |
| Routes of exposure | : Skin contact |
| Species | : Not tested on animals |
| Method | : OECD Test Guideline 442C |
| Result | : positive |

| | |
|--------------------|----------------------|
| Test Type | : KeratinoSens assay |
| Routes of exposure | : Skin contact |

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| | |
|------------|---|
| Species | : Tissue Culture |
| Method | : OECD Test Guideline 442D |
| Result | : positive |
| Assessment | : Probability or evidence of high skin sensitization rate in humans |

Germ cell mutagenicity

Not classified based on available information.

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

| | |
|-------------------------------------|---|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative |
| | Test Type: in vitro micronucleus test Method: OECD Test Guideline 487 Result: negative |
| Germ cell mutagenicity - Assessment | : Weight of evidence does not support classification as a germ cell mutagen. |

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

| | |
|------------------------------|--|
| Effects on fertility | : Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative |
| Effects on fetal development | : Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 |

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| | |
|------------------------------------|--|
| Reproductive toxicity - Assessment | Result: negative |
| | : Weight of evidence does not support classification for reproductive toxicity |

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

| | |
|--------------------|--|
| Routes of exposure | : 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[2,4-Dimethylvaleronitrile]:

| | |
|-------------------|---------------------------|
| Species | : Rat, male and female |
| NOAEL | : 250 mg/kg |
| LOAEL | : > 250 mg/kg |
| Application Route | : Ingestion |
| Exposure time | : 8 Weeks |
| Method | : OECD Test Guideline 422 |

Aspiration toxicity

Not classified based on available information.

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

|| No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

| | |
|---|--|
| Toxicity to fish | : LC50 (Danio rerio (zebra fish)): 2.11 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 1.17 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |

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Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 1.48 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 1.19 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Persistence and degradability

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

2,2'-Azodi[2,4-Dimethylvaleronitrile]:

Partition coefficient: n-octanol/water : log Pow: 3.319 (77 °F / 25 °C)

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.
Do not dispose of waste into sewer.

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

International Regulations

UNRTDG

UN number : UN 3236

Proper shipping name : SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED (2,2'-AZODI(2,4-DIMETHYL-VALERONITRILE))

Class : 4.1

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Packing group : Not assigned by regulation
Labels : 4.1
Environmentally hazardous : no

IATA-DGR

Not permitted for transport

IMDG-Code

UN number : UN 3236
Proper shipping name : SELF-REACTIVE SOLID TYPE D, TEMPERATURE CONTROLLED (2,2'-AZODI(2,4-DIMETHYLVALERONITRILE)) (2,2'-Azodi[2,4-Dimethylvaleronitrile])
Class : 4.1
Packing group : Not assigned by regulation
Labels : 4.1
EmS Code : F-F, S-K
Marine pollutant : yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 3236
Proper shipping name : Self-reactive solid type D, temperature controlled (2,2'-Azodi(2,4-dimethylvaleronitrile))
Class : 4.1
Packing group : Not assigned by regulation
Labels : FLAMMABLE SOLID
ERG Code : 150
Marine pollutant : yes(2,2'-Azodi[2,4-Dimethylvaleronitrile])

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.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Self-reactive chemicals
Combustible dust
Respiratory or skin sensitization

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SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

2,2'-Azodi[2,4-Dimethylvaleronitrile]

4419-11-8

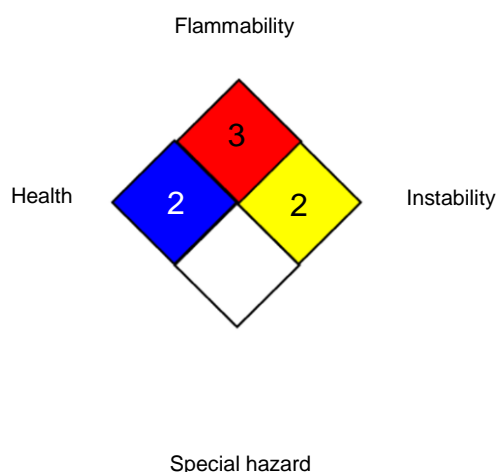
California Prop. 65

WARNING: This product can expose you to chemicals including Carbon monoxide, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

| | | |
|-----------------|---|---|
| HEALTH | / | 2 |
| FLAMMABILITY | | 3 |
| PHYSICAL HAZARD | | 2 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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Before use read Chemours safety information.

For further information contact the local Chemours office or nominated distributors.

Full text of other abbreviations

| | |
|--------------|--|
| ACGIH | : USA. ACGIH Threshold Limit Values (TLV) |
| NIOSH REL | : USA. NIOSH Recommended Exposure Limits |
| OSHA Z-1 | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| ACGIH / TWA | : 8-hour, time-weighted average |
| ACGIH / STEL | : Short-term exposure limit |
| ACGIH / C | : Ceiling limit |

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Vazo™ 52G

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|-----------------|---|---|
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST | : | STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday |
| NIOSH REL / C | : | Ceiling value not be exceeded at any time. |
| OSHA Z-1 / TWA | : | 8-hour time weighted average |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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 System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

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

Revision Date : 05/07/2025

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

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

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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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