

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## 420G-703 PRIMER BLACK

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 07/07/2025  |
| 15.0    | 09/10/2025     | 1343324-00056 | Date of first issue: 02/27/2017 |

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### SECTION 1. IDENTIFICATION

Product name : 420G-703 PRIMER BLACK

Product code : D15445711

SDS-Identcode : 130000127095

#### 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 : Coatings

Restrictions on use : For industrial use only.  
Do not use or resell Chemours™ materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information, please contact your Chemours representative.

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### SECTION 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

Specific target organ toxicity : Category 3  
- single exposure

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### Other hazards

The thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.  
Vapors may form explosive mixture with air.

### GHS label elements

Hazard pictograms

:



Signal Word

:

Danger

Hazard Statements

:

H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H360D May damage the unborn child.

Precautionary Statements

:

#### Prevention:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, sparks, open flame and hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P241 Use explosion-proof electrical, ventilating and lighting equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P261 Avoid breathing mist or vapors.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.

#### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical attention.  
P332 + P313 If skin irritation occurs: Get medical attention.  
P337 + P313 If eye irritation persists: Get medical attention.

#### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

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### Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Paint

### Components

| Chemical name          | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|------------------------|-------------------|-----------------------|--------------|
| N-Methyl-2-pyrrolidone | 872-50-4*         | $\geq 30 - \leq 60$   | TSC          |
| Isobutyl methyl ketone | 108-10-1*         | $\geq 10 - \leq 30$   | TSC          |
| Barium sulfate         | 7727-43-7*        | $\geq 5 - \leq 10$    | TSC          |
| Diacetone alcohol      | 123-42-2*         | $\geq 3 - \leq 7$     | TSC          |
| Carbon black           | 1333-86-4*        | $\geq 1 - \leq 5$     | 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.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical attention.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention.

If swallowed : If swallowed, DO NOT induce vomiting.

If vomiting occurs have person lean forward.

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Call a physician or poison control center immediately.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
Suspected of causing cancer.  
May damage the unborn child.

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  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.  
Flash back possible over considerable distance.  
Vapors may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Hydrogen fluoride  
carbonyl fluoride  
potentially toxic fluorinated compounds  
aerosolized particulates  
Metal oxides  
Sulfur oxides  
Chlorine compounds

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 : In the event of fire, wear self-contained breathing apparatus.

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for fire-fighters

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.  
Prevent spreading over a wide area (e.g., by containment or oil barriers).  
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 : Non-sparking tools should be used.  
Soak up with inert absorbent material.  
Suppress (knock down) gases/vapors/mists with a water spray jet.  
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
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

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.  
Use explosion-proof electrical, ventilating and lighting equipment.
- Advice on safe handling : Do not get on skin or clothing.  
Avoid breathing mist or vapors.  
Do not swallow.  
Do not get in eyes.  
Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

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assessment

Non-sparking tools should be used.

Keep container tightly closed.

Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the environment.

Do not breathe decomposition products.

Conditions for safe storage : Keep in properly labeled containers.  
Store locked up.  
Keep tightly closed.  
Keep in a cool, well-ventilated place.  
Store in accordance with the particular national regulations.  
Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substances and mixtures which in contact with water emit flammable gases  
Explosives  
Gases  
Very acutely toxic substances and mixtures

Recommended storage temperature : 41 - 77 °F / 5 - 25 °C

Further information on storage stability : Do not freeze.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components             | CAS-No.  | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis   |
|------------------------|----------|----------------------------------|--|---------|
| N-Methyl-2-pyrrolidone | 872-50-4 | TWA                              | 15 ppm<br>60 mg/m <sup>3</sup>                 | US WEEL |
|                        |          | STEL                             | 30 ppm<br>120 mg/m <sup>3</sup>                | US WEEL |

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|                        |           |                                    |                                  |           |
|------------------------|-----------|------------------------------------|----------------------------------|-----------|
| Isobutyl methyl ketone | 108-10-1  | TWA                                | 20 ppm                           | ACGIH     |
|                        |           | STEL                               | 75 ppm                           | ACGIH     |
|                        |           | TWA                                | 50 ppm<br>205 mg/m <sup>3</sup>  | NIOSH REL |
|                        |           | ST                                 | 75 ppm<br>300 mg/m <sup>3</sup>  | NIOSH REL |
|                        |           | TWA                                | 100 ppm<br>410 mg/m <sup>3</sup> | OSHA Z-1  |
| Barium sulfate         | 7727-43-7 | TWA (Inhalable particulate matter) | 5 mg/m <sup>3</sup>              | ACGIH     |
|                        |           | TWA (Respirable)                   | 5 mg/m <sup>3</sup>              | NIOSH REL |
|                        |           | TWA (total)                        | 10 mg/m <sup>3</sup>             | NIOSH REL |
|                        |           | TWA (total dust)                   | 15 mg/m <sup>3</sup>             | OSHA Z-1  |
|                        |           | TWA (respirable fraction)          | 5 mg/m <sup>3</sup>              | OSHA Z-1  |
| Diacetone alcohol      | 123-42-2  | TWA                                | 50 ppm                           | ACGIH     |
|                        |           | TWA                                | 50 ppm<br>240 mg/m <sup>3</sup>  | NIOSH REL |
|                        |           | TWA                                | 50 ppm<br>240 mg/m <sup>3</sup>  | OSHA Z-1  |
| Carbon black           | 1333-86-4 | TWA (Inhalable particulate matter) | 3 mg/m <sup>3</sup>              | ACGIH     |
|                        |           | TWA                                | 3.5 mg/m <sup>3</sup>            | NIOSH REL |
|                        |           | TWA                                | 3.5 mg/m <sup>3</sup>            | OSHA Z-1  |

**This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard.**

Carbon black

### Occupational exposure limits of decomposition products

| Components          | CAS-No.   | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis     |
|---------------------|-----------|-------------------------------|--|-----------|
| Hydrogen fluoride   | 7664-39-3 | TWA                           | 0.5 ppm (Fluorine)                             | ACGIH     |
|                     |           | C                             | 2 ppm (Fluorine)                               | ACGIH     |
|                     |           | TWA                           | 3 ppm  | OSHA Z-2  |
|                     |           | C                             | 6 ppm<br>5 mg/m <sup>3</sup>                   | NIOSH REL |
|                     |           | TWA                           | 3 ppm<br>2.5 mg/m <sup>3</sup>                 | NIOSH REL |
| Carbonyl difluoride | 353-50-4  | TWA                           | 2 ppm  | ACGIH     |
|                     |           | STEL                          | 5 ppm  | ACGIH     |
|                     |           | TWA                           | 2 ppm<br>5 mg/m <sup>3</sup>                   | NIOSH REL |
|                     |           | ST                            | 5 ppm  | NIOSH REL |

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|   |          |      |  |           |
|---|----------|------|--|-----------|
|   |          |      | 15 mg/m <sup>3</sup>                   |           |
| Carbon dioxide  | 124-38-9 | TWA  | 5,000 ppm                              | ACGIH     |
|   |          | STEL | 30,000 ppm                             | ACGIH     |
|   |          | TWA  | 5,000 ppm<br>9,000 mg/m <sup>3</sup>   | NIOSH REL |
|   |          | ST   | 30,000 ppm<br>54,000 mg/m <sup>3</sup> | NIOSH REL |
|   |          | TWA  | 5,000 ppm<br>9,000 mg/m <sup>3</sup>   | OSHA Z-1  |
| Carbon monoxide                                       | 630-08-0 | TWA  | 25 ppm                                 | ACGIH     |
|   |          | TWA  | 35 ppm<br>40 mg/m <sup>3</sup>         | NIOSH REL |
|   |          | C    | 200 ppm<br>229 mg/m <sup>3</sup>       | NIOSH REL |
|   |          | TWA  | 50 ppm<br>55 mg/m <sup>3</sup>         | OSHA Z-1  |
| 1-Propene, 1,1,3,3,3-pentafluoro-2-(trifluoromethyl)- | 382-21-8 | C    | 0.01 ppm                               | ACGIH     |

### Biological occupational exposure limits

| Components             | CAS-No.  | Control parameters               | Biological specimen | Sampling time  | Permissible concentration | Basis     |
|------------------------|----------|----------------------------------|---------------------|--|---------------------------|-----------|
| N-Methyl-2-pyrrolidone | 872-50-4 | 5-Hydroxy-N-methyl-2-pyrrolidone | Urine               | End of shift (As soon as possible after exposure ceases) | 100 mg/l                  | ACGIH BEI |
| Isobutyl methyl ketone | 108-10-1 | methyl isobutyl ketone           | Urine               | End of shift (As soon as possible after exposure ceases) | 1 mg/l                    | ACGIH BEI |

**Engineering measures** : Processing may form hazardous compounds (see section 10).  
Minimize workplace exposure concentrations.  
If sufficient ventilation is unavailable, use with local exhaust ventilation.  
Use explosion-proof electrical, ventilating and lighting equipment.

### 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.



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Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided 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. Take note that the product is flammable, which may impact the selection of hand protection. 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.  
Wash contaminated clothing before re-use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : black

Odor : No data available

Odor Threshold : No data available

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|  |   |  |
|--|---|--|
| pH   | : | No data available  |
| Melting point/freezing point                     | : | No data available  |
| Initial boiling point and boiling range          | : | > 237 °F / > 114 °C                                      |
| Flash point                                      | : | 87.01 °F / 30.56 °C<br>Method: ISO 2719                  |
| Evaporation rate                                 | : | No data available  |
| Flammability (solid, gas)                        | : | Not applicable   |
| Flammability (liquids)                           | : | Ignitable (see flash point)                              |
| Upper explosion limit / Upper flammability limit | : | No data available  |
| Lower explosion limit / Lower flammability limit | : | No data available  |
| Vapor pressure                                   | : | No data available  |
| Relative vapor density                           | : | No data available  |
| Density  | : | 1.1080 g/cm <sup>3</sup>                                 |
| Solubility(ies)<br>Water solubility              | : | soluble  |
| Partition coefficient: n-octanol/water           | : | Not applicable   |
| Autoignition temperature                         | : | No data available  |
| Decomposition temperature                        | : | No data available  |
| Viscosity<br>Viscosity, kinematic                | : | No data available  |
| Explosive properties                             | : | Not explosive  |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing. |
| Particle characteristics<br>Particle size        | : | Not applicable   |

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Flammable liquid and vapor.  
Vapors may form explosive mixture with air.  
Can react with strong oxidizing agents.  
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

#### Hazardous decomposition products

Thermal decomposition : Hydrogen fluoride  
Carbonyl difluoride  
Carbon dioxide  
Carbon monoxide  
1-Propene, 1,1,3,3,3-pentafluoro-2-(trifluoromethyl)-

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 4,808 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 67.86 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method

#### Components:

##### **N-Methyl-2-pyrrolidone:**

Acute oral toxicity : LD50 (Rat): 4,150 mg/kg  
Method: OECD Test Guideline 401  
Remarks: The test was conducted equivalent or similar to guideline

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Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: The test was conducted according to guideline

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: The test was conducted equivalent or similar to guideline

### Isobutyl methyl ketone:

Acute oral toxicity : LD50 (Rat): 2,080 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Expert judgment

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

### Barium sulfate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

### Diacetone alcohol:

Acute oral toxicity : LD50 (Rat): 3,002 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 7.6 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### Carbon black:

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

### Skin corrosion/irritation

Causes skin irritation.

### Components:

#### N-Methyl-2-pyrrolidone:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation  
Remarks : The test was conducted equivalent or similar to guideline

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### Isobutyl methyl ketone:

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

|            |   |   |
|------------|---|---|
| Assessment | : | Repeated exposure may cause skin dryness or cracking. |
|------------|---|---|

### Barium sulfate:

|         |   |                                      |
|---------|---|--------------------------------------|
| Species | : | reconstructed human epidermis (RhE)  |
| Method  | : | OECD Test Guideline 439              |
| Remarks | : | Based on data from similar materials |

|        |   |                    |
|--------|---|--------------------|
| Result | : | No skin irritation |
|--------|---|--------------------|

### Diacetone alcohol:

|         |   |                    |
|---------|---|--------------------|
| Species | : | Rabbit             |
| Result  | : | No skin irritation |

### Carbon black:

|         |   |                    |
|---------|---|--------------------|
| Species | : | Rabbit             |
| Result  | : | No skin irritation |

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Components:

#### N-Methyl-2-pyrrolidone:

|         |   |   |
|---------|---|---|
| Species | : | Rabbit  |
| Result  | : | Irritation to eyes, reversing within 21 days              |
| Method  | : | OECD Test Guideline 405                                   |
| Remarks | : | The test was conducted equivalent or similar to guideline |

#### Isobutyl methyl ketone:

|         |   |  |
|---------|---|--|
| Species | : | Human  |
| Result  | : | Irritation to eyes, reversing within 21 days |

#### Barium sulfate:

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

#### Diacetone alcohol:

|         |   |   |
|---------|---|---|
| Species | : | Rabbit                                      |
| Result  | : | Irritation to eyes, reversing within 7 days |
| Method  | : | OECD Test Guideline 405                     |

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### Carbon black:

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

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

### Components:

#### N-Methyl-2-pyrrolidone:

|                    |   |                                      |
|--------------------|---|--------------------------------------|
| Test Type          | : | Local lymph node assay (LLNA)        |
| Routes of exposure | : | Skin contact                         |
| Species            | : | Mouse                                |
| Method             | : | OECD Test Guideline 429              |
| Result             | : | negative                             |
| Remarks            | : | Based on data from similar materials |

#### Isobutyl methyl ketone:

|                    |   |                         |
|--------------------|---|-------------------------|
| Test Type          | : | Maximization Test       |
| Routes of exposure | : | Skin contact            |
| Species            | : | Guinea pig              |
| Method             | : | OECD Test Guideline 406 |
| Result             | : | negative                |

#### Barium sulfate:

|                    |   |                                      |
|--------------------|---|--------------------------------------|
| Test Type          | : | Local lymph node assay (LLNA)        |
| Routes of exposure | : | Skin contact                         |
| Species            | : | Mouse                                |
| Method             | : | OECD Test Guideline 429              |
| Result             | : | negative                             |
| Remarks            | : | Based on data from similar materials |

#### Diacetone alcohol:

|                    |   |                         |
|--------------------|---|-------------------------|
| Test Type          | : | Maximization Test       |
| Routes of exposure | : | Skin contact            |
| Species            | : | Guinea pig              |
| Method             | : | OECD Test Guideline 406 |
| Result             | : | negative                |

#### Carbon black:

|                    |   |                         |
|--------------------|---|-------------------------|
| Test Type          | : | Buehler Test            |
| Routes of exposure | : | Skin contact            |
| Species            | : | Guinea pig              |
| Method             | : | OECD Test Guideline 406 |
| Result             | : | negative                |

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### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### **N-Methyl-2-pyrrolidone:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: The test was conducted according to guideline

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: The test was conducted according to guideline

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Method: OECD Test Guideline 482  
Result: negative  
Remarks: The test was conducted equivalent or similar to guideline

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: The test was conducted according to guideline

#### **Isobutyl methyl ketone:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: equivocal

Test Type: Chromosome aberration test in vitro  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

#### **Barium sulfate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

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Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Result: negative  
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials

### Diacetone alcohol:

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

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

### Carbon black:

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: In vitro sister chromatid exchange assay in mam-  
malian cells  
Method: OECD Test Guideline 479  
Result: negative

Test Type: in vitro micronucleus test  
Method: OECD Test Guideline 487  
Result: negative

Genotoxicity in vivo

: Test Type: Sex-linked recessive lethal test in *Drosophila mel-  
anogaster* (in vivo)  
Species: *Drosophila melanogaster* (vinegar fly)  
Application Route: Ingestion  
Method: OECD Test Guideline 477  
Result: negative

### Carcinogenicity

Suspected of causing cancer.



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### **Components:**

#### **N-Methyl-2-pyrrolidone:**

|                   |   |
|-------------------|---|
| Species           | : Rat   |
| Application Route | : Ingestion                                     |
| Exposure time     | : 2 Years                                       |
| Method            | : OECD Test Guideline 451                       |
| Result            | : negative                                      |
| Remarks           | : The test was conducted according to guideline |

|                   |   |
|-------------------|---|
| Species           | : Rat   |
| Application Route | : Inhalation  |
| Exposure time     | : 2 Years   |
| Method            | : OECD Test Guideline 453                                   |
| Result            | : negative  |
| Remarks           | : The test was conducted equivalent or similar to guideline |

#### **Isobutyl methyl ketone:**

|                   |                           |
|-------------------|---------------------------|
| Species           | : Rat                     |
| Application Route | : inhalation (vapor)      |
| Exposure time     | : 2 Years                 |
| Method            | : OECD Test Guideline 451 |
| Result            | : positive                |

|                   |                           |
|-------------------|---------------------------|
| Species           | : Mouse                   |
| Application Route | : inhalation (vapor)      |
| Exposure time     | : 2 Years                 |
| Method            | : OECD Test Guideline 451 |
| Result            | : positive                |

|                              |   |
|------------------------------|---|
| Carcinogenicity - Assessment | : Limited evidence of carcinogenicity in animal studies |
|------------------------------|---|

#### **Barium sulfate:**

|                   |  |
|-------------------|--|
| Species           | : Rat                                  |
| Application Route | : Ingestion                            |
| Exposure time     | : 2 Years                              |
| Result            | : negative                             |
| Remarks           | : Based on data from similar materials |

#### **Carbon black:**

|                   |   |
|-------------------|---|
| Species           | : Rat   |
| Application Route | : Inhalation  |
| Exposure time     | : 24 Months   |
| Result            | : positive  |
| Remarks           | : IARC: (International Agency for Research on Cancer)<br>This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard. |

|                   |             |
|-------------------|-------------|
| Species           | : Rat       |
| Application Route | : Ingestion |
| Exposure time     | : 2 Years   |

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Result : negative

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

|             |   |           |
|-------------|---|-----------|
| <b>IARC</b> | Group 2B: Possibly carcinogenic to humans |           |
|             | Isobutyl methyl ketone                    | 108-10-1  |
|             | Group 2B: Possibly carcinogenic to humans |           |
|             | Carbon black                              | 1333-86-4 |

**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

May damage the unborn child.

### Components:

#### **N-Methyl-2-pyrrolidone:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: The test was conducted according to guideline

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: positive  
Remarks: The test was conducted according to guideline

Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: inhalation (vapor)  
Method: OECD Test Guideline 414  
Result: positive  
Remarks: The test was conducted equivalent or similar to guideline

Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: positive  
Remarks: The test was conducted equivalent or similar to guideline

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.

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### Isobutyl methyl ketone:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapor)  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: inhalation (vapor)  
Result: negative

### Barium sulfate:

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

### Diacetone alcohol:

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 fetal development : Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: positive

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

### Carbon black:

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

Test Type: Embryo-fetal development

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Species: Mouse  
Application Route: inhalation (dust/mist/fume)  
Result: negative

### STOT-single exposure

May cause respiratory irritation.

#### Components:

##### **N-Methyl-2-pyrrolidone:**

Assessment : May cause respiratory irritation.

##### **Isobutyl methyl ketone:**

Assessment : May cause drowsiness or dizziness.

##### **Diacetone alcohol:**

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified based on available information.

#### Components:

##### **Barium sulfate:**

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

### Repeated dose toxicity

#### Components:

##### **N-Methyl-2-pyrrolidone:**

Species : Rat, male  
NOAEL : 169 mg/kg  
LOAEL : 433 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days  
Method : OECD Test Guideline 408  
Remarks : The test was conducted according to guideline

Species : Rat  
NOAEL : 0.5 mg/l  
LOAEL : 1 mg/l  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 96 Days  
Method : OECD Test Guideline 413  
Remarks : The test was conducted according to guideline

Species : Rabbit, male  
NOAEL : 826 mg/kg  
LOAEL : 1,653 mg/kg

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Application Route : Skin contact  
Exposure time : 20 Days  
Method : OECD Test Guideline 410  
Remarks : The test was conducted equivalent or similar to guideline

### Isobutyl methyl ketone:

Species : Rat  
NOAEL : 250 mg/kg  
LOAEL : 1,000 mg/kg  
Application Route : Ingestion  
Exposure time : 13 Weeks

Species : Rat  
NOAEL : 4.106 mg/l  
Application Route : inhalation (vapor)  
Exposure time : 14 Weeks

### Barium sulfate:

Species : Rat  
NOAEL : 61.1 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days  
Remarks : Based on data from similar materials

### Diacetone alcohol:

Species : Rat  
NOAEL :  $\geq 600$  mg/kg  
Application Route : Ingestion  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408

Species : Rat  
NOAEL :  $\geq 4.685$  mg/l  
Application Route : inhalation (vapor)  
Exposure time : 6 Weeks

### Carbon black:

Species : Rat  
NOAEL : 1 mg/kg  
LOAEL : 7 mg/kg  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 90 Days  
Remarks : This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard.

### Aspiration toxicity

Not classified based on available information.

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### Components:

#### **Isobutyl methyl ketone:**

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

#### **Experience with human exposure**

### Components:

#### **N-Methyl-2-pyrrolidone:**

Skin contact : Symptoms: Skin irritation

## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Components:

#### **N-Methyl-2-pyrrolidone:**

|  |   |  |
|--|---|--|
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): > 1,000 mg/l<br>Exposure time: 24 h<br>Method: DIN 38412<br>Remarks: The test was conducted according to guideline                  |
| Toxicity to algae/aquatic plants                                       | : | ErC50 (Desmodesmus subspicatus (green algae)): 600.5 mg/l<br>Exposure time: 72 h<br><br>EC10 (Desmodesmus subspicatus (green algae)): 92.6 mg/l<br>Exposure time: 72 h |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 12.5 mg/l<br>Exposure time: 21 d<br>Method: OECD Test Guideline 211<br>Remarks: The test was conducted according to guideline       |
| Toxicity to microorganisms   | : | EC50 (activated sludge): > 600 mg/l<br>Exposure time: 30 min<br>Method: ISO 8192<br>Remarks: The test was conducted according to guideline                             |

#### **Isobutyl methyl ketone:**

|   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Danio rerio (zebra fish)): > 179 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203   |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 200 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202 |

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 30 mg/l  
Exposure time: 21 d

### Barium sulfate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 1 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50: > 600 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

NOEC: > 600 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

### Diacetone alcohol:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 1,000 mg/l

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Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Raphidocelis subcapitata (freshwater green alga)): > 1,000 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)): 100 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Carbon black:

Toxicity to fish : LL50 (Danio rerio (zebra fish)): > 1,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 5,600 mg/l  
Exposure time: 24 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL10 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201

EL50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l

Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201

### Persistence and degradability

#### Components:

#### **N-Methyl-2-pyrrolidone:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 73 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C  
Remarks: The test was conducted according to guideline

#### **Isobutyl methyl ketone:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 83 %



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Exposure time: 28 d  
Method: OECD Test Guideline 301F

### Diacetone alcohol:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 98.51 %  
Exposure time: 28 d

### Bioaccumulative potential

#### Components:

#### N-Methyl-2-pyrrolidone:

Partition coefficient: n-octanol/water : log Pow: -0.46  
Method: OECD Test Guideline 107  
Remarks: The test was conducted according to guideline

#### Isobutyl methyl ketone:

Partition coefficient: n-octanol/water : log Pow: 1.9

#### Barium sulfate:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): < 500

Partition coefficient: n-octanol/water : log Pow: -1.03  
Remarks: Calculation

#### Diacetone alcohol:

Partition coefficient: n-octanol/water : log Pow: -0.09  
Remarks: Calculation

### 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.  
Empty containers retain residue and can be dangerous.  
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources

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of ignition. They may explode and cause injury and/or death.  
If not otherwise specified: Dispose of as unused product.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

|                           |           |
|---------------------------|-----------|
| UN number                 | : UN 1263 |
| Proper shipping name      | : PAINT   |
| Class                     | : 3       |
| Packing group             | : III     |
| Labels                    | : 3       |
| Environmentally hazardous | : no      |

##### IATA-DGR

|  |                     |
|--|---------------------|
| UN/ID No.                                | : UN 1263           |
| Proper shipping name                     | : Paint             |
| Class                                    | : 3                 |
| Packing group                            | : III               |
| Labels                                   | : Flammable Liquids |
| Packing instruction (cargo aircraft)     | : 366               |
| Packing instruction (passenger aircraft) | : 355               |

##### IMDG-Code

|                      |                   |
|----------------------|-------------------|
| UN number            | : UN 1263         |
| Proper shipping name | : PAINT           |
| Class                | : 3               |
| Packing group        | : III             |
| Labels               | : 3               |
| EmS Code             | : F-E, <u>S-E</u> |
| Marine pollutant     | : no              |

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Domestic regulation

##### 49 CFR

|                      |                    |
|----------------------|--------------------|
| UN/ID/NA number      | : UN 1263          |
| Proper shipping name | : Paint            |
| Class                | : 3                |
| Packing group        | : III              |
| Labels               | : FLAMMABLE LIQUID |
| ERG Code             | : 128              |
| 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

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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

| Components             | CAS-No.  | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|------------------------|----------|-----------------------|--------------------------------|
| Isobutyl methyl ketone | 108-10-1 | 5000                  | 30845                          |

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the 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** : Flammable (gases, aerosols, liquids, or solids)  
Carcinogenicity  
Reproductive toxicity  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

|                        |           |                |
|------------------------|-----------|----------------|
| N-Methyl-2-pyrrolidone | 872-50-4  | >= 30 - < 50 % |
| Isobutyl methyl ketone | 108-10-1  | >= 10 - < 20 % |
| Barium sulfate         | 7727-43-7 | >= 5 - < 10 %  |

#### Volatile organic compounds (VOC) content

VOC content: 783.57 g/l  
Remarks: less exempt

VOC content: 783.45 g/l  
Remarks: as packaged

### US State Regulations

#### Pennsylvania Right To Know

|   |              |
|---|--------------|
| N-Methyl-2-pyrrolidone                                  | 872-50-4     |
| Isobutyl methyl ketone                                  | 108-10-1     |
| Fluoropolymer   | Trade secret |
| Barium sulfate  | 7727-43-7    |
| Poly(bis(p-chlorophenyl) sulfone/4,4'-sulfonyldiphenol) | 25608-63-3   |
| Diacetone alcohol                                       | 123-42-2     |
| Carbon black  | 1333-86-4    |
| Zinc oxide  | 1314-13-2    |

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|            |         |
|------------|---------|
| Butan-2-ol | 78-92-2 |
| Butan-1-ol | 71-36-3 |

### California Prop. 65

WARNING: This product can expose you to chemicals including Isobutyl methyl ketone, which is/are known to the State of California to cause cancer, and N-Methyl-2-pyrrolidone, 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](http://www.P65Warnings.ca.gov).

### California List of Hazardous Substances

|                        |          |
|------------------------|----------|
| Isobutyl methyl ketone | 108-10-1 |
| Diacetone alcohol      | 123-42-2 |

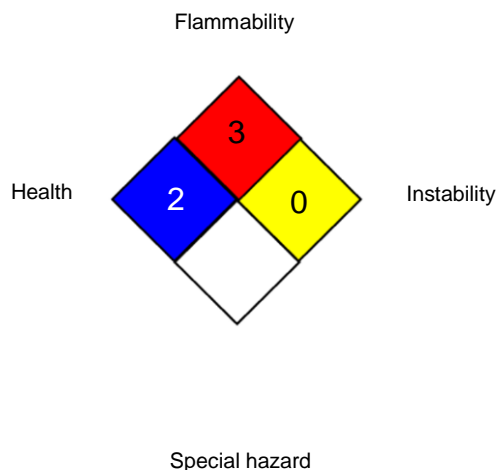
### California Permissible Exposure Limits for Chemical Contaminants

|                        |           |
|------------------------|-----------|
| N-Methyl-2-pyrrolidone | 872-50-4  |
| Isobutyl methyl ketone | 108-10-1  |
| Barium sulfate         | 7727-43-7 |
| Diacetone alcohol      | 123-42-2  |
| Carbon black           | 1333-86-4 |

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | * | 2 |
| FLAMMABILITY    |   | 3 |
| PHYSICAL HAZARD |   | 0 |

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)                   |
| ACGIH BEI | : ACGIH - Biological Exposure Indices (BEI)                 |
| NIOSH REL | : USA. NIOSH Recommended Exposure Limits                    |
| OSHA Z-1  | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- |

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|                 |   |
|-----------------|---|
|                 | its for Air Contaminants  |
| OSHA Z-2        | : USA. Occupational Exposure Limits (OSHA) - Table Z-2                                      |
| US WEEL         | : USA. Workplace Environmental Exposure Levels (WEEL)                                       |
| ACGIH / TWA     | : 8-hour, time-weighted average   |
| ACGIH / STEL    | : Short-term exposure limit   |
| ACGIH / C       | : Ceiling limit   |
| 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  |
| OSHA Z-2 / TWA  | : 8-hour time weighted average  |
| US WEEL / TWA   | : 8-hr TWA  |
| US WEEL / STEL  | : Short-Term TWA  |

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; TECL - 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, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> |
|--|---|

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Revision Date : 09/10/2025

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

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US / Z8