

**1. Identification**

**Product name:** Moisture Guard  
**Product code:** DAC-101  
**Recommended use:** Anti-moisture agent  
**Restrictions on use:** None known  
**Supplier:** DAC Industries, Inc.  
 1636 Gervais Avenue - Suite 9  
 Maplewood, MN 55109, USA  
 T +1 (651) 748-1750

**Emergency number:** (Chemical Spills, Leaks, Fire, Exposure or Accident only):  
 CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)  
 Chemtrec - Mexico 01-800-681-9531

**Issue date:** 03/27/2023

**2. Hazard(s) identification**

**Classification:**

Physical hazards	Health hazards
Flammable aerosol Category 1 Gases under pressure Compressed gas	Skin sensitization, Category 1 Reproductive toxicity Category 2

**GHS US labeling:**

Danger!



Hazard statements (GHS US)	Precautionary statements (GHS US)
H222 - Extremely flammable aerosol H280 - Contains gas under pressure; may explode if heated H317 - May cause an allergic skin reaction H361 - Suspected of damaging fertility or the unborn child	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Pressurized container: Do not pierce or burn, even after use. P261 - Avoid breathing gas, spray, vapors. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves. P302+P352 - If on skin: Wash with plenty of soap and

	<p>water.</p> <p>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P363 - Wash contaminated clothing before reuse.</p> <p>P308+P313 - If exposed or concerned: Get medical advice/attention.</p> <p>P403 - Store in a well-ventilated place.</p> <p>P405 - Store locked up.</p> <p>P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P501 - Dispose of contents/container to an approved waste disposal plant.</p>
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### 3: Composition/Information on ingredients

Component	CAS-No.	Amount (%)
Isobutane	75-28-5	80-85
Sulfonic acids, petroleum, barium salts	61790-48-5	<1
Benzenesulfonic acid, C10-60-alkyl derivs., barium salts	93028-28-5	<1
Propane	74-98-6	10-15
Petroleum distillates	64742-65-0	<1
2-methylpentane-2,4-diol	107-41-5	<1
barium carbonate	513-77-9	<1

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### 4. First-aid measures

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

**Skin:** Wash skin with plenty of water and soap. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

**Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:** Rinse mouth out with water. Do not induce vomiting. If you feel unwell, seek medical advice.

**Symptoms/effects:** May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause slight temporary irritation.

**Immediate medical attention and special treatment, if necessary:** None under normal conditions.

### 5. Fire-fighting measures

**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide. Cool down the containers exposed to heat with a water spray.

**Unsuitable extinguishing media:** None.

**Fire hazard:** Extremely flammable aerosol. Contents under pressure. Keep away from open flames, hot surfaces and sources of ignition. Pressurized container: may burst if heated.

**Special protective equipment and precautions for fire-fighters:** Use shielding to protect from bursting cans. Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin and clothing.

**Methods and material for containment and cleaning up:** Collect spillage. Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of materials or solid residues at an authorized site.

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13 : "Disposal considerations".

## 7. Handling and storage

**Precautions for safe handling:** Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Avoid breathing spray, gas, vapors. Avoid contact with eyes, skin and clothing. Use personal protective equipment as required. Pressurized container: Do not pierce or burn, even after use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Handle in accordance with good industrial hygiene and safety practice.

**Storage conditions:** Do not expose to temperatures exceeding 50 °C/ 122 °F. Protect from sunlight. Store in a well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. U.F.C. (NFPA 30B) Level III Aerosol.

## 8. Exposure controls/personal protection

<b>Exposure guidelines:</b>	
Isobutane	1000 ppm (EX - Explosion hazard) STEL ACGIH TLV;
Propane	1800 mg/m <sup>3</sup> TWA OSHA PEL; 1000 ppm TWA OSHA PEL;
Petroleum distillates	5 mg/m <sup>3</sup> TWA OSHA PEL; 5 mg/m <sup>3</sup> (I - Inhalable particulate matter) TWA ACGIH TLV;
Sulfonic acids, petroleum, barium salts	None established.
Benzenesulfonic acid, C10-60-alkyl derivs., barium salts	None established.
2-methylpentane-2,4-diol	25 ppm (V - Vapor fraction) TWA ACGIH TLV; 10 mg/m <sup>3</sup> (I - Inhalable Aerosol) STEL ACGIH TLV; 50 ppm (V - Vapor fraction) STEL ACGIH TLV;
barium carbonate	None established.

**Appropriate engineering controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Environmental exposure controls:** Avoid release to the environment.

**Personal protective equipment:**

**Hand protection:** Wear protective gloves.

**Eye protection:** Use suitable eye protection

**Skin and body protection:** Wear suitable protective clothing

**Respiratory protection:** No respiratory protection needed under normal use conditions. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**9. Physical and chemical properties**

**Appearance:** Aerosol spray can.

<b>Physical state</b>	: Liquid	<b>Partition coefficient n-octanol/water (Log Pow)</b>	: No data available
<b>Color</b>	: Amber	<b>Auto-ignition temperature</b>	: No data available
<b>Odor</b>	: Mild odor	<b>Decomposition temperature</b>	: No data available
<b>Odor threshold</b>	: No data available	<b>Viscosity, kinematic</b>	: > 20.5 mm <sup>2</sup> /s
<b>pH</b>	: No data available	<b>Viscosity, dynamic</b>	: No data available
<b>Melting point</b>	: No data available	<b>Explosion limits</b>	: Lower explosion limit: 1.8 vol % Propellant gas Upper explosion limit: 9.5 vol % Propellant gas
<b>Freezing point</b>	: No data available	<b>Explosive properties</b>	: No data available
<b>Boiling point</b>	: -24 °C (-11.2 °F)	<b>Oxidizing properties</b>	: Not oxidising.
<b>Flash point</b>	: < -104 °C (-155.2 °F)		
<b>Relative evaporation rate (butyl acetate=1)</b>	: No data available		
<b>Flammability</b>	: Extremely flammable aerosol.		
<b>Vapor pressure</b>	: No data available		
<b>Relative vapor density at 20°C</b>	: No data available		
<b>Relative density</b>	: No data available		
<b>Solubility</b>	: Not miscible.		

No additional information available

**10. Stability and reactivity**

**Reactivity:** Extremely flammable aerosol.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** No dangerous reactions known under normal conditions of use.

**Conditions to avoid:** Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

**Incompatible materials:** Strong oxidizing agents. Acids. Strong bases. Strong reducing agents.

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

**Inhalation:** May cause minor irritation to the respiratory tract and to other mucous membranes.

**Skin:** May cause an allergic skin reaction.

**Eyes:** No adverse effects expected. May cause slight irritation.

**Ingestion:** Not expected to present a significant ingestion hazard under anticipated conditions of normal use. No adverse effects expected.

**Chronic symptoms:** Suspected of damaging fertility or the unborn child.

**Carcinogenicity:** Not classified  
(This product does not contain any component that is considered a carcinogen by IARC, ACGIH, OSHA or NTP.)

**Germ cell mutagenicity:** Not classified

**Reproductive toxicity:** Suspected of damaging fertility or the unborn child.

**Acute toxicity (oral)** : Not classified

**Acute toxicity (dermal)** : Not classified

**Acute toxicity (inhalation)** : Not classified

**Numerical measures of toxicity:**

**The following are the toxicity values for the components:**

Isobutane > 20000 ppm/4h LC50 Inhalation - Rat [ppm]

Propane > 20000 ppm/4h LC50 Inhalation - Rat [ppm]

Petroleum distillates > 5000 mg/kg LD50 oral rat

Sulfonic acids, petroleum, barium salts > 4000 mg/kg LD50 dermal rabbit;  
> 1.9 mg/l/4h LC50 Inhalation - Rat

Benzenesulfonic acid, C10-60-alkyl derivs., barium salts > 5000 mg/kg LD50 dermal rabbit;  
> 1.9 mg/l/4h LC50 Inhalation - Rat

2-methylpentane-2,4-diol 4700 mg/kg LD50 oral rat;  
13.3 ml/kg LD50 dermal rabbit

barium carbonate 1690 mg/kg LD50 oral rat

**Skin corrosion/irritation** Not classified

**Serious eye damage/irritation** Not classified

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**STOT-single exposure** Not classified

**STOT-repeated exposure** Not classified

**Aspiration hazard** Not classified

## 12. Ecological information

**Ecology - general:** Harmful to aquatic life.

**Ecotoxicity:**

Sulfonic acids, petroleum, barium salts > 1000 mg/l Pseudokirchneriella subcapitata EC50 72h - Algae

Benzenesulfonic acid, C10-60-alkyl derivs., barium salts > 1000 mg/l Pseudokirchneriella subcapitata EC50 72h - Algae

2-methylpentane-2,4-diol  
barium carbonate

8510 mg/l LC50 - Fish;  
5410 mg/l Daphnia magna EC50 - Crustacea;  
> 429 mg/l Pseudokirchneriella subcapitata EC50 72h - Algae  
> 1.15 mg/l Pseudokirchneriella subcapitata EC50 72h - Algae

**Persistence and degradability:** No data available  
2-methylpentane-2,4-diol: Readily biodegradable.

**Bioaccumulative potential:** No data available  
2-methylpentane-2,4-diol: Log KOW ≤ 3

**Mobility in soil:** No data available

**Other adverse effects:**

No data available

## 13. Disposal considerations

**Product/Packaging disposal recommendations:** Dispose in a safe manner in accordance with local/national regulations.

**Additional information:** Empty containers retain product residue and can be hazardous.

## 14. Transport information

**Department of Transportation (DOT)**

**Proper Shipping Name (DOT)** : Aerosols  
**UN-No.(DOT)** : UN1950  
**Class (DOT)** : 2.1  
**Packing group (DOT)** : Not applicable  
**Hazard labels (DOT)** : Flammable gas

**Transport by sea**

**Proper Shipping Name (IMDG)** : AEROSOLS  
**UN-No. (IMDG)** : 1950  
**Class (IMDG)** : 2.1  
**Packing group (IMDG)** : Not applicable

**Air transport**

**Proper Shipping Name (IATA)** : Aerosols, flammable  
**UN-No. (IATA)** : 1950  
**Class (IATA)** : 2.1  
**Packing group (IATA)** : Not applicable

**15. Regulatory information**

**SARA Section 313 - Emission Reporting:**

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**CERCLA Section 103:**

This product is not subject to reporting under CERLCA. However, many states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA 302:**

Not applicable

**SARA Section 311/312 Hazard Classes:** Refer to Section 2 for OSHA Hazard Classification.

**California Proposition 65:**

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

**TSCA:** All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

**16. Other information**

Issue date : 03/27/2023

Indication of changes:

new version.

**NOTICE**

The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or the consequences of its use or misuse.