1. Identification

Product identifier 2-METHYL BUTYRALDEHYDE FCC

Other means of identification
- BRI Product Code 288
- CAS number 96-17-3
- FEMA number 2691
- Synonyms 2-Methyl Butanal * 2-Methylbutanal * alpha-Methylbutanal * Butanal, 2-methyl-

Recommended use
For Manufacturing Use Only

Recommended restrictions
Not for use in Tobacco or Nicotine delivery device applications and/or products.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer
- Company name Bedoukian Research
- Address 6 Commerce Drive
- Telephone 1-203-830-4000
- Website www.bedoukian.com
- E-mail customerservice@bedoukian.com
- Contact person Joseph Bania

Emergency phone number
- Chemtrec (North America) 1-800-424-9300
- Chemtrec (International) +1-703-527-3887

2. Hazard(s) identification

Physical hazards
- Flammable liquids Category 2
- Skin corrosion/irritation Category 2

Health hazards
- Serious eye damage/eye irritation Category 2A
- Sensitization, skin Category 1B
- Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards
- Hazardous to the aquatic environment, acute hazard Category 2
- Hazardous to the aquatic environment, long-term hazard Category 2

OSHA defined hazards
Not classified.

Label elements

Signal word Danger

Hazard statement Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.
Precautionary statement

Prevention
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/eye protection/face protection. Use explosion-proof electrical/vent/lighting equipment and non-sparking tools. Use proper grounding and bonding to prevent static discharge. Contaminated clothing must not leave the workplace.

Response
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage. If on skin: Wash with soap and water. If in eyes: Rinse with water for several minutes. Remove and wash contaminated clothing before reuse.

Storage

Disposal
Dispose of contents/container in accordance with relevant area regulations. Dispose of contents/container in accordance with relevant area regulations.

Hazard(s) not otherwise classified (HNOC)
None known.

Supplemental information
Contains 2-METHYL BUTYRALDEHYDE FCC, synthetic alpha tocopherol. May produce an allergic reaction.

3. Composition/information on ingredients

Substances

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
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<tr>
<td>2-METHYL BUTYRALDEHYDE FCC</td>
<td>2-Methyl Butanal</td>
<td>96-17-3</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>2-Methylbutanal</td>
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<tr>
<td></td>
<td>alpha-Methylbutanal</td>
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<td></td>
<td>Butanal, 2-methyl-</td>
<td></td>
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</table>

Stabilizers

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
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</thead>
<tbody>
<tr>
<td>synthetic alpha tocopherol</td>
<td></td>
<td>10191-41-0</td>
<td>0.5</td>
</tr>
</tbody>
</table>

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments
Occupational Exposure Limits for stabilizers are listed in Section 8.

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information
Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures

Suitable extinguishing media
- Water fog
- Foam
- Dry chemical powder
- Carbon dioxide (CO2)

Unsuitable extinguishing media
- Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
- Vapors may form explosive mixtures with air.
- Vapors may travel considerable distance to a source of ignition and flash back.
- During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
- Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
- In case of fire and/or explosion do not breathe fumes.
- Move containers from fire area if you can do so without risk.

Specific methods
- Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
- Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
- Keep unnecessary personnel away.
- Keep people away from and upwind of spill/leak.
- Eliminate all ignition sources (no smoking, flames, sparks, or flames in immediate area).
- Wear appropriate protective equipment and clothing during clean-up.
- Avoid breathing mist or vapor.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Ventilate closed spaces before entering them.
- Local authorities should be advised if significant spillages cannot be contained.
- For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
- Eliminate all ignition sources (no smoking, flames, sparks, or flames in immediate area).
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Take precautionary measures against static discharge.
- Use only non-sparking tools.
- This product is miscible in water.
- Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk.
- Dike the spilled material, where this is possible.
- Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
- Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
- Wipe up with absorbent material (e.g. cloth, fleece).
- Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.
- For waste disposal, see section 13 of the SDS.

Environmental precautions
- Avoid release to the environment.
- Inform appropriate managerial or supervisory personnel of all environmental releases.
- Prevent further leakage or spillage if safe to do so.
- Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling
- Do not handle, store or open near an open flame, sources of heat or sources of ignition.
- Protect material from direct sunlight.
- When using do not smoke.
- Explosion-proof general and local exhaust ventilation.
- Take precautionary measures against static discharges.
- All equipment used when handling the product must be grounded.
- Use non-sparking tools and explosion-proof equipment.
- Avoid breathing mist or vapor.
- Avoid contact with eyes, skin, and clothing.
- Wear appropriate personal protective equipment.
- Avoid release to the environment.
- Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
- Store locked up.
- Keep away from heat, sparks and open flame.
- Prevent electrostatic charge build-up by using common bonding and grounding techniques.
- Store in a cool, dry place out of direct sunlight.
- Store in original tightly closed container.
- Store in a well-ventilated place.
- Keep in an area equipped with sprinklers.
- Store away from incompatible materials (see Section 10 of the SDS).
- Recommended Packaging: Glass or Aluminum.
- Store tightly sealed under inert gas below 0 deg. C

8. Exposure controls/personal protection

Occupational exposure limits
- This substance has no PEL, TLV, or other recommended exposure limit.

Biological limit values
- No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
- Explosion-proof general and local exhaust ventilation.
- Good general ventilation (typically 10 air changes per hour) should be used.
- Ventilation rates should be matched to conditions.
- If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
- If exposure limits have not been established, maintain airborne levels to an acceptable level.
- Provide eyewash station.
- Eye wash fountain and emergency showers are recommended.
Individual protection measures, such as personal protective equipment

- **Eye/face protection**: Chemical respirator with organic vapor cartridge and full facepiece.
- **Skin protection**
  - **Hand protection**: Wear appropriate chemical resistant gloves.
  - **Chemical respirator with organic vapor cartridge and full facepiece**.
  - **Eye/face protection**
  - **Skin protection**
  - **Respiratory protection**: Chemical respirator with organic vapor cartridge and full facepiece.
- **Thermal hazards**: Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**: When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance**
- **Physical state**: Liquid.
- **Color**: Colorless to pale yellow
- **Odor**: Cocoa or coffee-like in dilution.
- **Odor threshold**: Not available.
- **pH**: Not available.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: 198 °F (92 °C)
- **Flash point**: 33 °F (1 °C) Closed Cup
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not applicable.

**Upper/lower flammability or explosive limits**
- **Flammability limit - lower (%)**: Not available.
- **Flammability limit - upper (%)**: Not available.
- **Explosive limit - lower (%)**: Not available.
- **Explosive limit - upper (%)**: Not available.

**Vapor pressure**: 57 mm Hg Reported as 76 hPa.

**Auto-ignition temperature**: 374 °F (190 °C) EU Method A.15

**Viscosity**: Not available.

**Other information**
- **Density**: 0.799 - 0.804 g/cm³
- **Explosive properties**: Not explosive.
- **Flammability class**: Flammable IB estimated
- **Kinematic viscosity**: 0.66 mm²/s OECD 114
- **Kinematic viscosity temperature**: 68 °F (20 °C)
- **Molecular formula**: C₅H₁₀O
- **Molecular weight**: 86.14

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Material name: 2-METHYL BUTYRALDEHYDE FCC

288 Version #: 03 Revision date: 28-May-2022 Issue date: 23-May-2015

SDS US 4 / 9
Oxidizing properties
Not oxidizing.
Specific gravity
0.799 - 0.804 at 25°C

10. Stability and reactivity
Reactivity
The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability
Material is stable under normal conditions.
Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.
Conditions to avoid
Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials
Strong oxidizing agents.
Hazardous decomposition products
No hazardous decomposition products are known.

11. Toxicological information
Information on likely routes of exposure
Inhalation
May cause irritation to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact
Causes skin irritation. May cause an allergic skin reaction.
Eye contact
Causes serious eye irritation.
Ingestion
Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects
Acute toxicity

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<th>Product</th>
<th>Species</th>
<th>Test Results</th>
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</table>

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye irritation.

Irritation Corrosion - Eye
2-METHYL BUTYRALDEHYDE FCC
Result: Irritation noted.
Species: Rabbit
Organ: Eye
Notes: RIFM

Respiratory or skin sensitization
Respiratory sensitization
Not a respiratory sensitizer.
Skin sensitization
May cause an allergic skin reaction.

Skin sensitization
2-METHYL BUTYRALDEHYDE FCC
OECD 429, Calculated EC3: 70%.
Result: Sensitizer
Species: Mouse
Organ: Skin
Notes: ECHA

Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Germ cell mutagenicity: Micronucleus
2-METHYL BUTYRALDEHYDE FCC

OECD 474, The test substance had no chromosome-damaging (clastogenic) effect, and there were no indications of any impairment of chromosome distribution in the course of mitosis (aneugenic activity) in bone marrow cells in vivo.
Result: No genotoxic effects observed.
Species: Mouse
Notes: ECHA

Carcinogenicity
Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens
Not listed.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not an aspiration hazard.

Further information
May cause allergic respiratory and skin reactions.

12. Ecological information

Ecotoxicity
Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
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</thead>
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<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
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</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)
2-METHYL BUTYRALDEHYDE FCC

Mobility in soil
No data available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

**DOT**

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**IATA**

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<td>Other information</td>
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<td>Passenger and cargo aircraft</td>
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<tr>
<td>Cargo aircraft only</td>
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**IMDG**

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<td>Read safety instructions, SDS and emergency procedures before handling.</td>
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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

---

**DOT**

![FLAMMABLE LIQUID](image)
15. Regulatory information

US federal regulations

This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - No
- Fire Hazard - Yes
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance
- Not listed.

SARA 311/312 Hazardous chemical
- Yes

SARA 313 (TRI reporting)
- Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
- Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
- Not regulated.

Safe Drinking Water Act (SDWA)
- Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace
- 2-METHYL BUTYRALDEHYDE FCC (CAS 96-17-3) Low priority

US state regulations
- California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

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<th>Inventory name</th>
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<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
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<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
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<td>Non-Domestic Substances List (NDSL)</td>
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<td>China</td>
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<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
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<td>European List of Notified Chemical Substances (ELINCS)</td>
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<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
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<td>Korea</td>
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<td>On inventory (yes/no)*</td>
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<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
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<td>Taiwan</td>
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<td>United States &amp; Puerto Rico</td>
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*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Issue date</th>
<th>23-May-2015</th>
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<tbody>
<tr>
<td>Revision date</td>
<td>28-May-2022</td>
</tr>
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<td>Version #</td>
<td>03</td>
</tr>
</tbody>
</table>

Disclaimer

Bedoukian Research cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Revision information

Physical & Chemical Properties: Multiple Properties
Toxicological Information: Toxicological Property Data
GHS: Classification