

MATERIAL SAFETY DATA SHEET

Complies with U. S. Department of Labor
Safety and Health Regulation 29 CFR 1910 1200

SECTION I

PRODUCT TRADE NAME: ORANGE FORCE 10

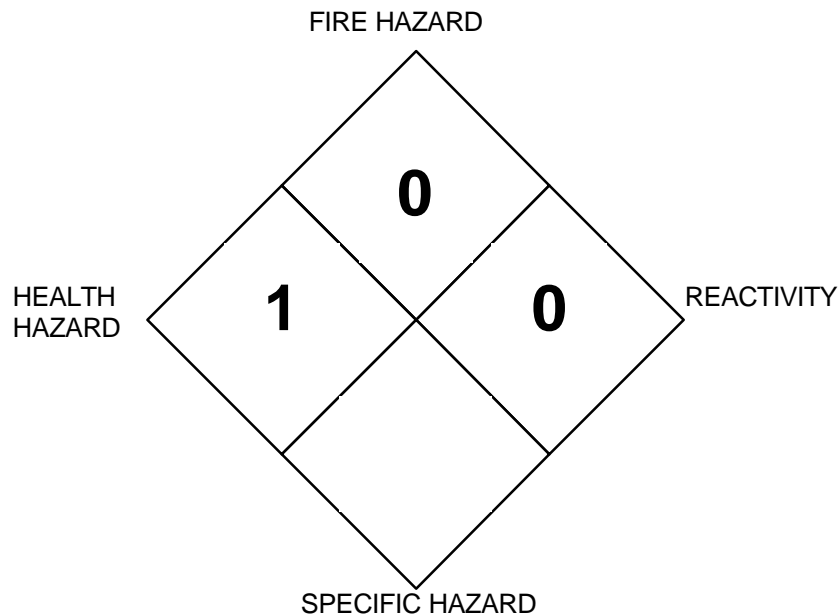
Chemical Family: Organic acids
Formula: C6H8O7

ORANGE FORCE
4853 NORTH MONTGOMERY
COLUMBIA MO 65202
1-573-268-5817

EMERGENCY CONTACT: CHEMTREC - 1-800-424-9300

(For use only in the event of emergencies involving a spill,
leak, fire, exposure, or accident involving chemicals)

NFP Code



Health Hazard:	Fire Hazard: (Flash Point)	Reactivity:	Specific Hazard:
0 - Normal Material 1 - Slightly Hazardous 2 - Hazardous 3 - Extreme Danger	0 - Will Not Burn 1 - Above 200°F 2 - Below 200°F 3 - Below 100°F	0 - Stable 1 - Unstable if Heated 2 - Violent Chemical Change 3 - Shock and Heat May	Oxidizer OXY Acid ACID Alkali ALK Corrosive COR

4 - Deadly	4 - Below 73°F	Detonate	
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SECTION II - HAZARDOUS INGREDIENTS

Hazardous Ingredients	Percent:	Threshold Limit Value: (Values expressed as time-weighted average of airborne concentration)
Citric Acid	3.0	15 mg/m ³ OSHA/TWA
B-Hydroxytricarballic Acid (CAS #77-92-9)		10 mg/m ³ ACGIH/TLV 5 mg/m ³ Respirable TWA

SECTION III - PHYSICAL PROPERTY DATA

Boiling Point: N/D
 Vapor Pressure: N/D
 % Volatile: N/D
 Vapor Density (Air = 1): N/D
 Evaporation Rate (Water = 1): N/D
 Solubility in Water:
 Appearance and Odor: Solid (powder, crystal, flake, granule, tablet, prill, briquette, etc.); no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NA
 Flammable Limits: N/D
 Extinguishing Media: Water fog, dry chemical, or CO₂
 Special Fire Fighting Procedures: Prevent human exposure to fire, fumes, smoke, and products of combustion. Evacuate nonessential personnel. If a fire occurs where this product is stored, self-contained breathing apparatus should be employed. Use water spray to cool nearby containers and structures exposed to fire.
 Unusual Fire and Explosion Hazards: None currently known.

SECTION V - HEALTH HAZARD DATA

Effects of Overexposure:

ON SKIN: In some cases, may cause irritation to skin.

IN EYES: Results of exposure can range from mild to severe irritation, depending upon duration of contact.

INHALATION: May cause irritation.

INGESTION: No hazard expected by this route in normal use.

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SECTION V - HEALTH HAZARD DATA (Continued)

Emergency First Aid Procedures:

IN EYES: Flush immediately with clean water for 15 minutes while holding eyelids apart to ensure flushing of entire surface. Seek immediate medical attention.

ON SKIN: If irritation occurs, flush with plenty of clean water. Remove contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Seek medical attention if a rash occurs or if irritation continues.

INHALATION: Remove person to fresh air. Begin CPR if breathing has stopped, and seek medical attention immediately.

INGESTION: If swallowed, induce vomiting immediately by giving two large glasses of water and sticking finger down throat. NEVER give anything to an unconscious person orally. Seek immediate medical attention.

SECTION VI - PERSONAL PROTECTION INFORMATION

Respiratory Protection: Use NIOSH approved respirator as necessary if levels reach or exceed Threshold Limit Values (Refer to Section II).

Ventilation: Local exhaust is normally adequate. Use mechanical ventilation if build-up of mist or vapors is likely.

Protective Gloves: Chemical resistant rubber or neoprene gloves are recommended.

Eye Protection: Chemical splash goggles or face shield is recommended.

Other Protective Equipment: Rubber boots and apron as needed to prevent contact with skin and clothing.

SECTION VII - REACTIVITY DATA

Stability Data: Stable

Incompatibility: Organic bases; amphoteric metals.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, miscellaneous organic compounds, some possibly toxic.

Hazardous Polymerization: Will not occur

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps To be taken if released or spilled: For small spills, flush area thoroughly with water. For large spills, sweep up material and re-use if possible. If spilled material is not re-usable, sweep up and shovel

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SECTION VIII - SPILL OR LEAK PROCEDURES (Continued)

into a D.O.T. approved container for disposal as RCRA Hazardous Waste. After removal, flush area thoroughly with water.

Waste Disposal Method: Check with Federal, State, and Local authorities for regulations regarding the disposal of RCRA Hazardous Waste.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Keep container tightly closed when not in use. Do not swallow or breathe dust. Do not get in eyes or on skin. Wash thoroughly after handling.

Other precautions: KEEP OUT OF THE REACH OF CHILDREN. Have eyewash accessible to use and handling area. This container hazardous when emptied. Since emptied container contains product residues (vapor or liquid), all labeled hazard precautions must be observed.

SECTION X - SHIPPING INFORMATION

Proper Shipping Name:

D.O.T. Classification: Unclassified

D.O.T. Placard: None

Precautions to be taken in transportation: Keep container tightly closed.

SECTION XI – ADDITIONAL INFORMATION

Other Additional Information:

No information available at this time.

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS #	Chemical Name:	Percent by Weight:
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None

This information must be included in all Material Safety Data Sheets that are copied and distributed for this material.