

Material Safety Data Sheet Orange Crush

Section 1. Chemical Product and Company Identification

Product Name	Orange Crush	
Product Number	NTN OC	
Manufacturer/ Supplier	NuTech Specialties, Inc. 9811 So. 6150 W. West Jordan, UT 84088	
Phone Number	(801) 253-1000 (Mon-Fri/ 8am- 5pm MT)	
D.O.T. Emergency Phone:	1-800-633-8253	
Date of Preparation	September 26, 2012	Revision Number 1.0

Section 2. Hazards Identification

Emergency overview	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
DANGER!	
Keep out of reach of children. Keep container closed during storage.	
Potential Acute Health Effects	This product is an eye irritant.
Routes of Entry	Eye Contact Ingestion. INHALATION Skin contact.
Eyes	Eye irritant.
Skin	Skin irritant with prolonged contact.
Inhalation	Vapors may be irritating to the eye and mucous membranes of the nose, throat, and lungs. High concentrations may cause nausea.
Ingestion	Harmful if swallowed. May cause headache, dizziness, nausea, vomiting, breathing difficulties and weakness. Possible kidney damage may result from long quantities of material.
Medical conditions aggravated by exposure:	Over-exposure by inhalation may cause respiratory irritation.
Potential Chronic Health	Over-exposure by inhalation may cause respiratory irritation.
Carcinogenic Effects	No evidence of chronic effects
Target Organs	Kidney
Environmental effects	N/A

Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Orange Terpenes	6864-72-3	Proprietary		
Methyl Esters	68919-53-9	Proprietary		

Section 4. First Aid Measures

Eye Contact	Remove contact lenses, flush with large quantities of water for 15-20 minutes. Seek medical attention if irritation persists.
Skin Contact	Flush with large quantities of water. Seek medical attention if irritation persists.
Inhalation	Get to fresh air. IF breathing is difficult, seek medical attention if irritation persists.
Ingestion	Drink two glasses of water and induce vomiting. Seek medical attention immediately.
General Advice	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).

Notes to Physician

Section 5. Fire Fighting Measures

Flammability	No specific information is available in our database regarding the flammability of this product in presence of various materials.
Fire Fighting Media and instructions	Non-flammable substance.
Products of Combustion	Not available.
Special Remarks on Fire Hazards	N/A
Special Remarks on Explosion Hazards	N/A
Sensitivity to Mechanical Impact	N/A
Sensitivity to Static Discharge	N/A
Protection of Fire Fighters	See special remarks on Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions	Splash goggles. Full suit. Boots. Gloves. Usual precaution for combustible liquids, avoid freezing of product
Methods for Containment	Absorb spills with dirt, sand or other suitable material
Environmental Precautions	Incinerate in a furnace where permitted under appropriate federal, state, and local regulations
Methods for Clean Up	Absorb spills with dirt, sand, or other suitable material

Section 7. Handling and Storage

Precautions	Keep locked up. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
Incompatibility	oxidizing agents
Storage	Keep locked up and out of the reach of children. Keep container tightly closed. Not for use or storage in or around the home.

Keep out of reach of children.
Keep container closed during storage.

Section 8. Exposure Controls/Personal Protection

Engineering Controls

Personal Protection Good general ventilation should be sufficient to control airborne levels.

Eyes Safety glasses or splash goggles

Body No special protective clothing is required. Eye washing station recommended

Respiratory Not normally required. If needed mechanical exhaust may be necessary in confined space

Hands Rubber or neoprene gloves

Protective Clothing (Pictograms)



Exposure Limits

2-Butoxyethanol

TWA: 25 (ppm)

TWA: 50 (ppm) from OSHA (PEL)

Section 9. Physical and Chemical Properties

Physical State and Appearance	Orange liquid
Molecular Weight	N/A
Ph	N/A
Boiling/Condensation Point	200 F
Melting/Freezing Point	N/A
Critical Temperature	N/A
Instability Temperature	N/A

Specific Gravity	(H2O = 1): 0.88
Vapor Pressure	(Non-Aerosols)(mm Hg and Temperature): N/A
Vapor Density	(Air = 1)
Volatility	N/A
VOC	N/A
Evaporation Rate	(H2O = 1): N/A
Dispersion Properties	N/A
Solubility	Partially in water
The Product is:	
Auto-ignition Temperature	N/A
Flash Points	Special fire fighting procedures: 290 F Tag closed cup
Flammable Limits	N/A
Fire Hazards in Presence Of Various Substances	None
Explosion Hazards in Presence of Various Substances	None
Odor	Citrus scent
Color	Orange

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substance	Strong oxidizing agents
Hazardous Decomposition Products	Burning can produce carbon dioxide and/or carbon monoxide

Section 11. Toxicological Information

Routes of Entry	Eye Contact Ingestion. INHALATION Skin contact
Toxicity to Animals	
Acute Effects on Humans	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 1746 mg/kg {Rat}. (2-Butoxyethanol) Acute toxicity of the gas (LC50): 926 ppm 4 hour(s) {Mouse} (2-Butoxyethanol)
Eyes	Eye irritant.
Skin	Skin irritant with prolonged contact.
Inhalation	Vapors may be irritating to the eye and mucous membranes of the nose, throat, and lungs. High concentrations may cause nausea.

Ingestion	Harmful if swallowed. May cause headache, dizziness, nausea, vomiting, breathing difficulties and weakness. Possible kidney damage may result from long quantities of material.
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation.
Special Remarks on Toxicity to Animals	No additional remarks
Special Remarks on Chronic Effects on Humans	No additional remarks

Section 12. Ecological Information

Ecotoxicity	Not available
BOD5 and COD	Not available
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available
Special Remarks on the Products of Biodegradation	No additional remarks

Section 13. Disposal Considerations

Waste Information	Any method in accordance with applicable laws.
Waste Stream	Not available

Section 14. Transport Information

DOT (U.S.A.) (Pictograms)	
TDG Classification	Not controlled under TDG (Canada)
PIN UN, Proper Shipping Name, PG	Not applicable
Maritime Transportation	Not available
Special Provisions for Transport	Not applicable

Section 15. Regulatory Information and Pictograms

Regulatory Lists	No products were found	
Other Regulations	Not available, or of its ingredients	
Other Classifications	HCS (U.S.A.)	HCS CLASS: Irritating substance.

USA Regulatory Lists This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL)
 SARA 302 Extremely Hazardous Substances - Not listed
 SARA 311 - 1. Immediate (acute) health hazard
 SARA 313 Toxic Chemical List – Not listed

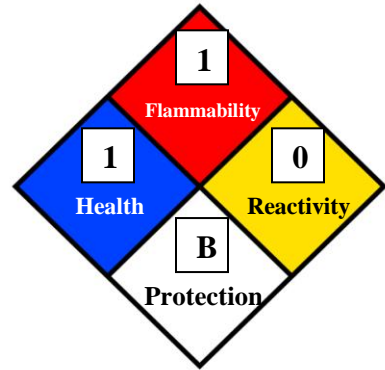
DSD (EEC)

International Regulations Lists No Products were found.

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



WHMIS (Classification) WHMIS CLASS D-2: Material causing other toxic effects.

The Hazard Ranking systems presented on this MSDS sheet provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Expiry Date 3 (Three Years) from the date of preparation indicated in Section 1.

Validated by _____ **Verified by** _____

Information Contact _____ **Printed** _____

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on _____ **NuTech Specialties, Inc.**