

Material Safety Data Sheet Orange Crush DBT

Section 1. Chemical Product and Company Identification

Product Name	Orange Crush DBT	
Product Number	NTN OCDBT	
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 25, 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 irritation. Liquid and mist may cause damage to the eyes causing corneal injury.
Skin	Skin irritation. May cause moderate redness and swelling with prolonged contact.
Inhalation	Vapors may be irritating to mucous membranes of the nose, throat, and lungs. High concentrations may cause nausea.
Ingestion	Harmful if swallowed. May cause headache, dizziness, nausea, vomiting, breathing difficulty 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	Classified A3 (Proven for animal.) by ACGIH {2-Butoxyethanol}..
Target Organs	Kidneys
Environmental Effects	1 ppm / 24hr. /minnow / no effect / fresh water 5 ppm / 48 hr. / mosquito fish / TLM / fresh water

Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Orange Terpenes	6864-72-3	Proprietary		
Glycol Ether EB	111-76-2	Proprietary		

Section 4. First Aid Measures

Eye Contact	Remove contact lenses, flush with large water for 15-20 minutes. Seek medical attention immediately
Skin Contact	Remove contaminated clothing. Wash affected areas with copious amounts of soap water. Seek medical attention if irritation persists.
Inhalation	Seek fresh air immediately. If breathing is difficult seek medical attention.
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	Not available

Section 5. Fire Fighting Measures

Flammability	Combustible Liquid
Fire Fighting Media and instructions	Non-flammable substance.
Products of Combustion	Carbon Monoxide, and Carbon Dioxide
Special Remarks on Fire Hazards	Not available
Special Remarks on Explosion Hazards	Not available
Sensitivity to Mechanical Impact	Not available
Sensitivity to Static Discharge	Not available
Protection of Fire Fighters	See special remarks on Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions	Splash goggles. Full suit. Boots. Gloves.
Methods for Containment	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Environmental Precautions	Incinerate in a furnace where permitted under appropriate federal, state, and local regulations
Methods for Clean Up	See Methods for Containment

Section 7. Handling and Storage

Precautions	Usual precautions for combustible liquids. Avoid freezing product. 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 away from ignition source.

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. Eye washing station recommended

Eyes Splash goggles or goggles.

Body No special protective clothing is required.

Respiratory A respirator is not needed under normal and intended conditions of product use.

Hands Rubber or neoprene gloves (impervious)

Protective Clothing (Pictograms)



Exposure Limits **2-Butoxyethanol**
TWA: 25 (ppm)
TWA: 50 (ppm) from OSHA (PEL)

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Clear, yellow liquid
Molecular Weight	N/A
pH	(NEAT)7.0
Boiling/Condensation Point	318 F to 386 F
Specific Gravity	(H ₂ O = 1) 0.88
Vapor Pressure	(Non-Aerosols)(mm Hg and Temperature)

Vapor Density	(Air = 1)
Volatility	N/A
VOC	N/A
Evaporation Rate	(H ₂ O = 1)
Dispersion Properties	N/A
Solubility	Partially soluble in water
The Product is:	Solvent Liquid
Auto-ignition Temperature	N/A
Flash Points	108 F
Flammable Limits	Not applicable
Fire Hazards in Presence Of Various Substances	Combustible liquid: Avoid heat, sparks, and open flame
Explosion Hazards in Presence of Various Substances	Combustible liquid: Avoid heat, sparks, and open flame
Odor	Citrus
Color	Clear, yellow

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 > 5000mg. / Kg Rat
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 irritation. Liquid and mist may cause damage to the eyes causing corneal injury.
Skin	Skin irritation. May cause moderate redness and swelling with prolonged contact.
Inhalation	Vapors may be irritating to mucous membranes of the nose, throat, and lungs. High concentrations may cause nausea.
Ingestion	Harmful if swallowed. May cause headache, dizziness, nausea, vomiting, breathing difficulty 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	1 ppm / 24hr. /minnow / no effect / fresh water 5 ppm / 48 hr. / mosquito fish / TLM / fresh water
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	Absorb spills with dirt, sand, or other suitable material. Any method in accordance with applicable laws.
Waste Stream	Not available

Section 14. Transport Information

DOT (U.S.A.) (Pictograms)	Not regulated
TDG Classification	Not controlled under TDG (Canada)
PIN UN, Proper Shipping Name, PG	Not regulated
Maritime Transportation	Not a "marine pollutant"
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	This product does NOT contain components that are known to the state of

Lists 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
 2. Delayed (chronic) health hazard
 3. Fire hazard
 SARA 313 Toxic Chemical List – Not listed

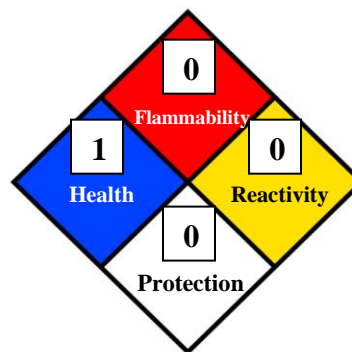
DSD (EEC)

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** _____

Printed

Information Contact

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.**