

BIS(2-METHYL-3-FURYL) DISULFIDE, NATURAL 5% IN TRIACETIN-USOC

NATURAL ADVANTAGE, LLC

SAFETY DATA SHEET

I. PRODUCT AND COMPANY IDENTIFICATION

Company:	Natural Advantage, LLC	Address:	1050 Cypress Creek Road Oakdale, Louisiana 71463
Telephone:	318-215-1456	Fax:	318-335-1579
Product Name:	Bis(2-methyl-3-furyl) disulfide, Natural 5% in Triacetin-USOC	Chemical Name:	Bis(2-methyl-3-furyl) disulfide (5%) in 1,2,3-Propanetriol (95%)
Product Number:	NA3259-5Tri	EMERGENCY 24 HOUR CONTACT: ChemTrec 1-800-424-9300 Contract # 219030	

II. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]
 Non Hazardous

NFPA Hazard Rating:	Health: 0	Fire: 1	Reactivity: 0
Labeling according to Regulation (EC) No 1272/2008 [CLP]:	Pictogram: None	Signal word: None Hazard statement: None	Precautionary statements: None

III. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name:	Bis(2-methyl-3-furyl) disulfide, Natural 5% Triacetin-USOC	Chemical Name:	Bis(2-methyl-3-furyl) disulfide (5%) in 1,2,3-Propanetriol (95%)
Synonyms:	Bismethylfuryl disulfide	CAS#:	28588-75-2 (5%), 102-76-1 (95%)
Formula:	C ₁₀ H ₁₀ O ₂ S ₂	EINECS#:	249-095-2 (5%), 203-051-9 (95%)
Molecular Wt.:	226.317 g/mol		

IV. FIRST AID MEASURES

Inhalation	Remove from the exposure to fresh air. Contact a physician as necessary. If breathing is irregular or has stopped, start resuscitation and administer oxygen if available.
Eye Contact	Flush immediately with clean water for at least 15 minutes. Contact a physician if irritation persists.
Skin Contact	Remove any contaminated clothing or shoes. Wash affected areas thoroughly with soap and water. If irritation persists, contact a physician.
Ingestion	Do NOT induce vomiting. Give water to dilute. Contact a physician immediately.

V. FIRE-FIGHTING MEASURES

Flashpoint (Method Used):	>110°C (>230°F) CC
Lower Flammable Limit (% by Volume):	Information Not Applicable
Upper Flammable Limit (% by Volume):	Information Not Applicable
Extinguishing Media:	Water spray, Alcohol-resistant foam, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.
Unusual Fire and Explosion Hazards:	None
NFPA Hazard Rating:	Health: 0 Fire: 1 Reactivity: 0

VI. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled.	Eliminate all ignition sources. Ventilate area. Contain spill and recover free product. Report spill to appropriate authorities if required.
Waste Disposal Method	Place material into sealed containers and dispose of in accordance with current applicable laws and regulations.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Precautions to be taken in handling and storing.	Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use. Good manufacturing practices dictate that an eyewash fountain and/or safety shower should be available in the work area.
Other Precautions:	None.

VIII. CONTROL MEASURES

Occupational Exposure Limits	Does not contain any materials with occupational exposure limits.
Respiratory Protection:	None generally required. If desired use NIOSH approved respirator.
Ventilation:	Local exhaust meeting ACGIH criteria as needed.
Protective Gloves:	Use chemical resistant gloves.
Protective Eyewear:	Use splash goggles or face shield when eye contact might occur.
Other Protective Clothing or Equipment:	Chemical resistant sleeves or suits if necessary.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Information Not Available	Specific Gravity (H ₂ O = 1):	1.1581 - 1.1681
Vapor Pressure (mm Hg):	Information Not Available	Flash Point:	>110°C (>230°F)
Vapor Density (AIR =1):	>1.0	Melting Point:	Information Not Available
Solubility in Water:	Insoluble	Evaporation Rate:	Information Not Available
pH:	Information Not Available	Color:	Amber to Orange
Flammability (solid, gas):	Information Not Available	Oxidizing properties:	Information Not Available
Upper/lower flammability or explosive limits:	Information Not Available	Odor:	Seared beef
Autoignition temperature:	Information Not Available	Partition coefficient:	Information Not Available
Viscosity:	Information Not Available	Decomposition temperature:	Information Not Available
Appearance:	Clear Liquid	Explosive properties:	Information Not Available

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X. REACTIVITY DATA

Stability:	Chemically Stable under recommended storage conditions.	Conditions to Avoid: Information Not Available
Incompatibility with other Substance (Materials to Avoid):	Strong oxidizing agents	
Hazardous Decomposition or Byproducts:	Carbon Oxides	
Hazardous Polymerization:	No	

XI. TOXICOLOGICAL INFORMATION

Acute toxicity: Information Not Available	Causes irritation Information Not Available	Skin corrosion/irritation:	Causes Irritation
Serious eye damage/eye irritation: Germ cell mutagenicity:		Respiratory or skin sensitization: Reproductive toxicity:	May be harmful Information Not Available
Specific target organ toxicity (single exposure):	Information Not Available	Specific target organ toxicity (repeated exposure):	Information Not Available
Aspiration hazard:	May be harmful		
Carcinogenicity:	Bis(2-methyl-3-furyl) disulfide 5% in Triacetin is not listed as carcinogenic by IARC, ACGIH, NTP, or OSHA.		

XII. ECOLOGICAL INFORMATION

Toxicity:	Information Not Available	Persistence and Degradation:	Information Not Available
Bioaccumulative potential:	Information Not Available	Mobility in soil:	Information Not Available
PBT and vPvB assessment:	Information Not Available	Other adverse effects:	Information Not Available

XIII. DISPOSAL CONSIDERATIONS

Product:	Observe all federal, state, and local environmental regulations in disposing this material.
Contaminated packaging:	Dispose of as unused product.

XIV. TRANSPORTATION INFORMATION

DOT (US) Proper Shipping Name:	UN Number: Not Regulated Information Not Applicable	Class: Information Not Applicable Marine pollutant: No	Packing Group: Information Not Applicable Poison Inhalation Hazard: No
IMDG Proper Shipping Name:	UN Number: Not Regulated Information Not Applicable	Class: Information Not Applicable Marine pollutant: No	Packing Group: Information Not Applicable
IATA Proper Shipping Name:	UN Number: Not Regulated Information Not Applicable	Class: Information Not Applicable	Packing Group: Information Not Applicable

XV. REGULATORY INFORMATION

OSHA Hazards	Not considered highly hazardous by OSHA.
US Federal	TSCA: CAS# 28588-75-2 is listed on the TSCA Inventory. CAS# 102-76-1 is listed on the TSCA inventory. California Prop. 65: This product does not contain any chemicals known to cause cancer, birth defects, or any other reproductive harm.
SARA 311/312	None
Regulation	Complies with EC 1272/2008.

XVI. OTHER INFORMATION

MSDS Creation Date:	06/16/2018
MSDS Revision #:	
Revision Date:	
Liability Statement:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Natural Advantage, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.

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