Safety Data Sheet

Tofa-E-1

Section 1: Product and Company Identification

Manufacturer	Ideas Additives LLC 625 S Main St. Lombard, IL 60148		
Telephone	(630) 620-2010	**Fax**	(630) 620-2014
Product Names	Tofa-E-1		
Recommended Use	Acidic buffer		
Restrictions on Use	For industrial/commercial use only		
Emergency Contact / Number	(630) 620-2010		

Section 2: Hazard Identification

Hazard Classifications

Eye damage/irritation	Category 2B Causes eye irritation
Sensitization, skin	Category 1 May cause an allergic skin reaction



Signal word Warning

Precautionary statement(s)

Prevention	Avoid breathing fumes, spray, mist, or vapors. Wash skin and contact areas thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
Response	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.
Disposal	Dispose of contents and container according to local, state/provincial, and federal regulations.

Section 3: Composition/Information on Ingredients

Component	CAS#	Concentration
Fatty acids, C16-C22, C18 unsaturated	68424-13-5	50 – 100
Rosin	8050-09-7	<50

Section 4: First Aid Measures

Eye Contact

Flush eyes with clean, lukewarm water for at least 15 minutes while holding eyelids open. Remove contacts. If irritation occurs and persists, get medical attention if irritation occurs and persists.

Skin Contact

Wash affected area thoroughly with mild soap and water then rinse with water. Get medical advice or attention if irritation or rash occurs and persists. Remove any contaminated clothing and wash before reuse.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water if victim is conscious. Do not induce vomiting without medical direction. Keep head below hips to prevent aspiration if vomiting occurs. Seek medical attention if victim feels unwell or if large amount was ingested.

Inhalation

Remove to fresh air and seek medical attention if adverse effects are observed.

Most Important Symptoms / Effects

Eye pain or vision impairment, skin rash, allergic reaction

Indication of Immediate Medical Attention and Special Treatment, If Necessary

None expected under normal conditions. Seek medical attention for persistent eye or skin pain; irritation, or allergic reaction

SECTION 5: FIREFIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media
Product will burn at high temperatures. Use water spray or fog, dry chemical, foam as appropriate for surrounding fire. High pressure water stream may spread fire. No known unsuitable materials.
Specific Hazards Arising from the Chemical
May produce CO, CO_2, decomposition products, flammable gases, and acrid vapors in a fire. Closed containers may rupture or explode when exposed to extreme heat.
Specific Protective Equipment and Precautions for Fire-Fighters
Avoid breathing vapors or mists. Use a water spray to cool fire-exposed containers, structures and to protect personnel. Do not enter enclosed area without a positive pressure, NIOSH-approved self-contained breathing apparatus. Closed containers may explode from high heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions
The affected area may be slippery. Isolate release area and keep unnecessary or untrained people away. Avoid or minimize skin or eye contact with spilled material. See Section 8 for personal protection gear.
Environmental Precautions
Contain spill if it can be done with minimal risk. Prevent liquid from entering drains, sewers, or waterways. Advise EPA, state, or local agencies as required.
Methods for Cleaning Up
Stop leak if you can without risk. Do not discharge to the environment. Transfer to labeled, sealable containers for product recovery or safe disposal. Small spills can be handled using absorbent material and transferred to containers for disposal. Larger spills should be diked and absorbed with binding agents such as sand or vermiculite to prevent runoff to the environment or sewer. Wash affected area with detergent or soapy water to remove slip hazard.

SECTION 7: HANDLING AND STORAGE

Handling and Storage
Wear protective clothing to prevent or minimize contact. See specific recommendations in Section 8. Use good ventilation and follow all procedures and precautions for handling chemicals. Best stored in a dry, well ventilated place at 50 – 90 °F. Reseal lid on container after use. Store only in the original or a compatible, clearly labeled container. Product will darken in direct sunlight or heat.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits

Component Name	ACGIH	OSHA
Rosin (CAS 8050-09-7)	0.001 mg/m^3 (TWA)	Not Applicable

Engineering Controls
Use appropriate ventilation to maintain good air quality; avoid breathing aerosols or mists; use appropriate respirator if exposure limits are exceeded.
Eye and Face Protection
Wear safety glasses or chemical safety goggles; use face shield when working with large amounts or if splashing is possible.
Skin Protection
Wear protective gloves to avoid contact. Confirm impermeability with glove supplier for materials in Section 3.
Respiratory Protection
Not normally needed. Maintain good ventilation or air flow. Wear suitable respiratory protection to avoid inhalation of aerosol particles.
General Hygiene
Follow accepted work practices for handling chemicals. Do not eat, drink, or smoke in areas where this product is used or stored. Wash thoroughly with soap and water after task or shift, when using the restroom or before eating.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State	Yellow liquid	**Flash Point (closed cup)**	>390 °F (200 °C)
Specific Gravity (Water=1)	Not Determined	**Upper Flammability Limits**	Not Determined
Evaporation Rate (ether = 1)	<1	**Lower Flammability Limits**	Not Determined
pH	Not Determined	**Auto-ignition Temperature**	Not Determined
Solubility in Water	Not Determined	**Decomposition Temperature**	Not Determined
Odor	Not Determined	**Vapor Pressure (mm Hg @ 20 °C)**	Not Determined
Odor Threshold	Not Determined	**Vapor Density (Air-=1)**	Not Determined
Melting/Freezing Point	Not Determined	**Partition Coefficient (n-octanol/water)**	Not Determined
Boiling Range	Not Determined	**Viscosity (cSt @ 40 °C)**	Not Determined
Initial Boiling Point	Not Determined	**Critical Temperature**	Not Determined
Note: Physical and chemical properties are provided for safety, health and environmental considerations and do not fully represent product specifications. Those should be requested separately.			

SECTION 10: STABILITY AND REACTIVITY

Reactivity None known
Chemical Stability Acid value will decrease over time due to self-condensation
Possibility of Hazardous Reactions Will not occur under normal conditions use and storage conditions
Conditions to Avoid None known
Incompatible Materials None known
Hazardous Decomposition Products None known

SECTION 11: TOXICOLOGICAL INFORMATION

Specific toxicity tests have not been conducted on this mixture. In accordance with OSHA's Hazard Communication Standard 1910.1200, this mixture is assumed to have the same health hazards as its significant components.

Acute Toxicity Effects

Likely route of exposure is skin contact. Product may cause sensitization in some individuals. Avoid prolonged or repeated contact. Poor hygiene may result in irritation or sensitization. Literature values for the rosin component: Oral toxicity (rat) – LD_{50} 7,600 mg/kg. Inhalation toxicity (rat) – LC_{50} > 1.5 mg/l/4h. Dermal toxicity (rabbit) – LD_{50} > 2,500 mg/kg.

Chronic Toxicity Effects

Long term or repeated exposure may aggravate any acute symptoms.

Carcinogenicity

NTP, OSHA and IARC have not identified any carcinogenic ingredients in this product.

SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects. No information on biodegradability, or bioaccumulation. Do not allow runoff to surface waters, wastewater, or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of material and empty containers in accordance with local, state/province, and federal environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT and TDG (land) , IMDG(marine), IATA (air) Not Regulated

SECTION 15: REGULATORY INFORMATION

Chemical Inventories	All ingredients are listed or exempt from listing on the TSCA, active (U.S.) and DSL (Canada) inventories. Other national inventories on request.
SARA 311/312 Reporting Categories	Chronic hazard
SARA 313 Reportable Ingredients	None
California Prop 65	Not listed

SECTION 16: OTHER INFORMATION

NFPA Rating	Health=2; Flammability=1; Reactivity=0
Department Issuing SDS	Health and Safety

Disclaimer

The information appearing in this document is based upon data obtained from raw material manufacturers and/or recognized technical sources. While this information is believed to be correct IDEAS ADDITIVES LLC makes no representations as to its accuracy or sufficiency, usage, or hazards connected with the use of this material. Since this product may be applied under conditions unfamiliar to us or beyond our control, we claim no responsibility for the results of its use, and users are responsible for the verification of the information under their own operating conditions to determine whether the product is suitable for their particular purposes, and these users assume all risks of their use, handling, and disposal of the product. This information relates only to the product designated above and does not relate to its use in combination with any other process.