



SAFETY DATA SHEET

1. Identification

Product identifier UNI-TAC™ 70, HOT

Other means of identification

SDS number 13546

Product Code 200000001472

Recommended use Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation [mixing] of preparations and/or re-packaging (excluding alloys).

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Arizona Chemical Company LLC

Address Building 100
4600 Touchton Road East, Suite 1200

City/State Jacksonville, FL

Zip 32246

Country USA

Phone Number 904-928-8700

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Fax Number 904-928-8780

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2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement The substance does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information Contact with hot material can cause thermal burns which may result in permanent damage. At elevated temperatures, vapor may cause irritation of eyes and respiratory tract.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Modified Rosin		Proprietary	99-100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments This product contains a very low level of chemically-bound formaldehyde which may be released slowly and in small amounts (less than 0.1 ppm) at 110°C or above. If this product is used in molten form in a manner which might liberate formaldehyde, the OSHA formaldehyde standard (29 CFR 1910.1048) should be applied to airborne formaldehyde in the workplace.

4. First-aid measures

Inhalation If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

Skin contact If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Cool skin rapidly with cold water after contact with molten material.

Eye contact If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.

Ingestion Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed Treat symptomatically.

General information Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Water spray, dry chemical, carbon dioxide.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Wear suitable protective equipment. Extinguish fires started by molten material by using appropriate method for the burning material.

Specific methods Extinguish fires started by molten material by using appropriate method for the burning material.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Avoid inhalation of fumes from molten product. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Avoid contact with hot material. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Avoid contact with hot material. Avoid breathing vapor from heated material. Avoid prolonged exposure. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	If this product is used in molten form in a manner which might liberate formaldehyde, the OSHA formaldehyde standard (29 CFR 1910.1048) should be applied to airborne formaldehyde in the workplace. Exhaust ventilation is required to remove resin vapor and fumes and to maintain formaldehyde off-gas below allowable limits. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear a face shield when working with molten material. Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. When handling hot material, use heat resistant gloves.
Other	For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Eye wash fountain and emergency showers are recommended.

9. Physical and chemical properties

Appearance	Liquid.
Physical state	Liquid.
Form	Viscous liquid
Color	Amber.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	172.4 - 185 °F (78 - 85 °C)
Initial boiling point and boiling range	Not available.
Flash point	> 201.0 °F (> 93.9 °C) Cleveland Open Cup
Evaporation rate	0 n-BuAc=1 estimated
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.001 mm Hg at 20°C
Vapor density	Not available.
Relative density	1.06 at 25°C/25°C (water=1)
Solubility(ies)	
Solubility (water)	< 0.1 % at 25°C
Auto-ignition temperature	Not available.

Decomposition temperature	Not available.
Viscosity	765 cP Brookfield at 125°C
Other information	
Chemical family	Modified Rosin
Density	1060.00 kg/m ³
Percent volatile	0.26 % EPA Method 24 % by weight

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Strong oxidizing agents. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Small amounts of formaldehyde may be evolved on heating. Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.
Skin contact	Molten material will produce thermal burns.
Eye contact	Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.

Modified Rosin	Irritation Corrosion - Eye, No eye irritation. Result: Negative Species: New Zealand white rabbit Organ: Eye Observation Period: 72 hours
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Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components	Species	Test Results
Modified Rosin		
Acute		
<i>Dermal</i>		
LD50	Sprague-Dawley rat	> 2000 mg/kg At this dose no death occurred.; Data is for similar product.
<i>Oral</i>		
LD50	Sprague-Dawley rat	> 5000 mg/kg, 15 days
Subchronic		
<i>Oral</i>		
NOAEL	Rat	600 mg/kg/day Data is for similar product.

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Molten material will produce thermal burns.

Corrosivity Modified Rosin	Irritation Corrosion - Skin, No skin irritation. Result: Negative Species: New Zealand white rabbit Organ: Skin Test Duration: 4 h Observation Period: 72 h
Serious eye damage/eye irritation	Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.
Eye Contact Modified Rosin	Irritation Corrosion - Eye, No eye irritation. Result: Negative Species: New Zealand white rabbit Organ: Eye Observation Period: 72 hours
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	This product is not expected to cause skin sensitization.
Skin sensitization Modified Rosin	Buehler Test, Not a skin sensitizer. Result: Negative Species: Guinea pig Organ: Skin Notes: OECD 406 Maximization Test, Not a skin sensitizer. Result: Negative Species: Guinea pig Organ: Skin Test Duration: 24 h Observation Period: 48 h
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Mutagenicity Modified Rosin	Germ Cell Mutagenicity: Ames, Data is for similar product. Result: Negative Species: Salmonella typhimurium Notes: OECD 471 Germ Cell Mutagenicity: Chromosome Abberation, Data is for similar product. Result: Negative Species: Human Notes: OECD 473 In Vitro Mammalian Cell Gene Mutation Test, No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.; Data is for similar product. Result: Negative Species: Mouse Notes: OECD 476
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	
Not listed.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not available.
Further information	Small amounts of formaldehyde may be evolved on heating. Formaldehyde: Formaldehyde has carcinogenic potential and is a known skin and respiratory sensitizer.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Modified Rosin			
Aquatic			
Algae	EL50	Algae	> 100 mg/l, 72 h OECD 201
	NOEL	Algae	100 mg/l, 72 h OECD 201
Crustacea	EL50	Daphnia	> 100 mg/l, 48 h OECD 202
	NOEL	Daphnia	100 mg/l, 48 h OECD 202
Fish	EL50	Ide, silver or golden orfe (Leuciscus idus)	> 1000 mg/l, 96 h OECD 203
	NOEL	Ide, silver or golden orfe (Leuciscus idus)	1000 mg/l, 96 h OECD 203

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Modified Rosin 5.36 EU Method A.8, at 20° C

Bioconcentration factor (BCF)

Modified Rosin 56.23, QSAR Estimated

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	
UN number	UN3257
UN proper shipping name	Elevated temperature liquid, n.o.s., at or above 100 C and below its flash point (Modified Rosin)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB1, T3, TP3, TP29
Packaging exceptions	None
Packaging non bulk	None
Packaging bulk	247
IATA	
UN number	UN3257
UN proper shipping name	Elevated temperature liquid, n.o.s. at or above 100°C and below its flash point (Modified Rosin)
Transport hazard class(es)	
Class	9

Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Forbidden
Cargo aircraft only	Forbidden

IMDG

UN number	UN3257
UN proper shipping name	ELEVATED TEMPERATURE LIQUID, N.O.S. at or above 100°C and below its flashpoint (Modified Rosin)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-P
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

DOT; IATA; IMDG



15. Regulatory information

US federal regulations All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

NFPA ratings



US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

16. Other information, including date of preparation or last revision

Issue date 02-27-2015

Revision date 02-27-2015

Version # 1.1

Disclaimer

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Revision Information

This document has undergone significant changes and should be reviewed in its entirety.