

1. Identification

Product identifier	ZONATAC™ NG98, HOT
Other means of identification	
SDS number	13695
Product Code	200000001632
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
Alternate Phone Number	800-526-5294
Fax Number	904-928-8780
Emergency-US	CHEMTREC 800-424-9300

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Sensitization, skin	Category 1B
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning
Hazard statement	May cause an allergic skin reaction.
Precautionary statement	
Prevention	Avoid breathing fume. Wear protective gloves. Contaminated work clothing must not be allowed out of the workplace.
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
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

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Styrenated Terpene Resin		Proprietary	90 - <100
Other components below reportable levels			5 - <10

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

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. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
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	Rash. May cause an allergic skin reaction. Dermatitis. Exposure to hot material may cause thermal burns.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
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. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Water spray, dry chemical, carbon dioxide. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. 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. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. 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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with hot material. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. 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. Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. 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 mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor from heated material. Provide adequate ventilation. Wear appropriate personal protective equipment. 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

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. Provide eyewash station.

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

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. 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. Contaminated work clothing should not be allowed out of the workplace. Eye wash fountain and emergency showers are recommended.

9. Physical and chemical properties

Appearance

Liquid.

Physical state

Liquid.

Form

Viscous liquid

Color

Light yellow

Odor

Mild

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

206.6 °F (97 °C)

Initial boiling point and boiling range

> 750.2 °F (> 399 °C)

Flash point

420.8 °F (216.0 °C) Setafish Closed 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 25°C
Vapor density	Not available.
Relative density	> 1 at 25°C
Solubility(ies)	
Solubility (water)	< 0.1 % at 25°C
Partition coefficient (n-octanol/water)	> 6.5
Auto-ignition temperature	726.8 °F (386 °C)
Decomposition temperature	Not available.
Viscosity	22150 - 24350 mPa·s Brookfield at 121°C
Other information	
Bulk density	> 1000 kg/m3 at 20°C
Chemical family	Terpene Resin
Percent volatile	1.5 - 2.5 % EPA Method 24 estimated
VOC (Weight %)	1.5 - 2.5 %

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. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	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. May cause an allergic skin reaction.
Styrenated Terpene Resin	50 % Local Lymph Node Assay - Lowest Concentration Producing Reaction, SI=5.3; May cause sensitization by skin contact. Result: Positive Species: Mouse Organ: Skin Notes: OECD 429
Eye contact	Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.
Styrenated Terpene Resin	Irritation Corrosion - Eye, May cause eye irritation.; Not classified. Result: Positive Species: New Zealand white rabbit Organ: Eye Observation Period: 72 hr Severity: Mild Notes: OECD 405
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Rash. May cause an allergic skin reaction. Dermatitis.

Information on toxicological effects

Acute toxicity	May cause an allergic skin reaction.
Skin corrosion/irritation	Molten material will produce thermal burns.

Corrosivity

Styrenated Terpene Resin

Acute Dermal Irritation/Corrosion, Mild skin irritation.; Not classified.

Result: Positive

Species: New Zealand white rabbit

Organ: Skin

Test Duration: 4 hr

Observation Period: 72 hr

Severity: Mild

Irritation Corrosion - Skin, No skin irritation.

Result: Negative

Species: New Zealand white rabbit

Organ: Skin

Test Duration: 24 hr

Observation Period: 72 hr

Serious eye damage/eye irritation

Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.

Eye Contact

Styrenated Terpene Resin

Irritation Corrosion - Eye, May cause eye irritation.; Not classified.

Result: Positive

Species: New Zealand white rabbit

Organ: Eye

Observation Period: 72 hr

Severity: Mild

Notes: OECD 405

Respiratory or skin sensitization**Respiratory sensitization** Not available.**Skin sensitization** May cause an allergic skin reaction.**Skin sensitization**

Styrenated Terpene Resin

50 % Local Lymph Node Assay - Lowest Concentration Producing Reaction, SI=5.3; May cause sensitization by skin contact.

Result: Positive

Species: Mouse

Organ: Skin

Notes: OECD 429

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Mutagenicity

Styrenated Terpene Resin

Germ Cell Mutagenicity: Ames, No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Result: Negative

Species: Salmonella typhimurium

Notes: OECD 471

Germ Cell Mutagenicity: Chromosome Abberation, This material is considered to be non-clastogenic to human lymphocytes in vitro.

Result: Negative

Species: Human

Notes: OECD 473

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

Styrenated Terpene Resin

Cytotoxicity - in Vitro, Not cytotoxic

Result: Negative

Species: Mouse

Organ: Fibroblasts cells

Observation Period: 48 hr

Notes: ISO 10993-5

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
Styrenated Terpene Resin			
	EL50	Green algae	> 1000 mg/l, 72 hr OECD 201
	NOEL	Green algae	1000 mg/l, 72 hr OECD 201
Aquatic			
Crustacea	EL50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hr OECD 202
Fish	LL50	Rainbow Trout	> 1000 mg/l, 96 hr OECD 203
	NOEL	Rainbow Trout	1000 mg/l, 96 hr OECD 203

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

Persistence and degradability Not readily degradable.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

ZONATAC™ NG98, HOT > 6.5

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. Dispose of contents/container in accordance with local/regional/national/international regulations.

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 (including molten metals, molten salts, etc.)
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 (including molten metals, molten salts, etc.)

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 (including molten metals, molten salts, etc.)

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 This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

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 - Yes
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

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: 2
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 12-03-2014

Revision date 12-03-2014

Version # 1.0

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