



Material Safety Data Sheet

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Version: 1.0

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SECTION 1 - Chemical Product & Company Identification

Product Name	Paratone-N
Product Number	HR2-643
Company	Hampton Research
Street Address	34 Journey
City, State, Zip, Country	Aliso Viejo, CA 92656-3317 USA
Technical Phone	949 425 1321
Fax	949 425 1611
Emergency Phone	949 425 1321
For CHEMTREC Assistance, call:	800 424 9300
For International CHEMTREC Assistance, call:	703 527 3887

SECTION 2 - Composition / Information on Ingredient

PRODUCT NAME

- Paratone-N

INTENDED USE

- Viscosity modifier

SECTION 3 - Hazards Identification

EMERGENCY OVERVIEW

- This material is not considered to be hazardous according to regulatory guidelines (see MSDS section 15).

HMIS RATING

HEALTH: 1
FLAMMABILITY: 1
PHYSICAL HAZARDS: 0

NFPA RATING

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0

HAZARD RATINGS

0 - LEAST
1 - SLIGHT
2 - MODERATE
3 - HIGH
4 - EXTREME

(CONTINUED) SECTION 3 - Hazards Identification

POTENTIAL HEALTH EFFECTS

- INHALATION: May be irritating if inhaled.
- SKIN: May be irritating if absorbed through skin.
- EYES: May be irritating to the eyes.
- INGESTION: May be irritating if swallowed.

POTENTIAL PHYSICAL / CHEMICAL EFFECTS

- Contact with hot material can cause thermal burns which may result in permanent damage.
- Thermal burn hazard - contact with hot material may cause thermal burns.

NOTE

- This material should not be used for any other purposes than the intended use in **Section 2** without expert advice.
- Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4 - First Aid Measures

GENERAL ADVICE

- Consult a physician.
- Move out of dangerous area.
- Show this safety data sheet to the doctor in attendance.

ORAL EXPOSURE

- Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
- Give one or two glasses of water if patient is alert and able to swallow.
- Consult a physician immediately.

INHALATION EXPOSURE

- If inhaled, remove to fresh air away from further exposure. If not breathing give artificial respiration.
- For those providing assistance, avoid exposure to yourself or others.
- If breathing is difficult, GIVE OXYGEN. Use adequate respiratory protection.
- If respiratory irritation, dizziness, nausea, or unconsciousness occurs seek medical advice.
- If breathing has stopped, assist ventilation with a medical device or use mouth-to-mouth resuscitation.

DERMAL EXPOSURE

- Take off contaminated clothing and shoes immediately. Wash contaminated clothing before reuse.
- Wash off with soap and plenty of water.
- **For hot product:** Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat.
Cover with clean gauze and get prompt medical attention.

EYE EXPOSURE

- In case of contact with eyes, flush with copious amounts of water for at least 15 minutes.
- Assure adequate flushing by separating the eyelids with fingers.
- Consult a physician if irritation occurs.

SECTION 5 - Fire Fighting Measures

FLAMMABILITY PROPERTIES

- Flash Point [Method]: 175 °C (347 °F) [ASTM D-93]
- Flammable Limits (approximate volume % in air): LEL: N/D UEL: N/D
- Autoignition Temperature: N/A

EXTINGUISHING MEDIA

- Suitable: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flame.

FIREFIGHTING

- Evacuate area.
- Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
- Firefighters should use standard protective equipment and in enclosed spaces, self contained breathing apparatus (SCBA).
- Use water spray to cool fire exposed surfaces and to protect personnel.

HAZARDOUS COMBUSTION PRODUCTS

- Smoke, Fume, Carbon monoxide, Nitrogen oxides.

SECTION 6 - Accidental Release Measures

NOTIFICATION PROCEDURES

- In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting release of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks,
- The National Response Center can be reached at (800) 424-8802.

SPILL MANAGEMENT

- Land Spill: Stop leak if you can do it without risk. Small spills: absorb with earth, sand, or other non-combustible material and transfer to containers for later disposal. If liquid is too viscous for pumping, scrape it up with shovels, into a suitable container for recycle or disposal.
- Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Report spills as required to appropriate authorities. Seek the advice of a specialist before using dispersants.

ENVIRONMENTAL PRECAUTIONS

- Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements, or confined areas.

SECTION 7 - Handling & Storage

HANDLING

- User Exposure
 - Avoid all personal contact.
 - Avoid contact with skin.
 - Prevent small spills and leakage to avoid slip hazard.
- Loading / Unloading Temperature: N/D
- Transport Temperature: N/D
- Transport Pressure: N/D
- Static accumulator: This material is not a static accumulator.

STORAGE

- Do not store in open or unlabeled containers.
- Storage Temperature: N/D
- Storage Pressure: N/D
- Suitable materials and Coatings: Carbon Steel; Stainless Steel; Zinc; Epoxies
- Unsuitable Materials and Coatings: Butadiene Rubber; Butyl Rubber; Polyethylene; Rubber; Styrene Rubber.

SECTION 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

- No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

- Personal protective equipment selections vary based on potential exposure conditions such as applications, Handling practices, concentration, and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.
- Respiratory: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). No special requirements under ordinary conditions of use and with adequate ventilation.
- Hand: If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.
- Eye: If contact is likely, safety glasses with side shields are recommended. If contact with material may occur, safety glasses and face shield are recommended.
- Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. If product is hot, thermally protective, chemical resistant apron and long sleeves are recommended.

(CONTINUED) SECTION 8 - Exposure Controls / PPE

GENERAL HYGIENE MEASURES

- 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.
- Discard contaminated clothing and footwear that cannot be cleaned.
- Practice good housekeeping.

ENVIRONMENTAL CONTROLS

- See **Sections 6, 7, 12, 13**

SECTION 9 - Physical / Chemical Properties

APPEARANCE

COLOR:

Clear to Opaque

PHYSICAL STATE:

Liquid

ODOR:

N/D

ODOR THRESHOLD:

N/D

PROPERTY

VALUE

AT TEMPERATURE OR PRESSURE

Relative Density

0.877

at 60 °F

Density

877 kg/m³ (7.32 lbs/gal,
0.88 kg/dm³)

at 15 °C

Flash Point [Method]

175 °C (347 °F)

[ASTM D-93]

Flammable Limits (Approx. vol. % in air)

LEL: N/D UEL: N/D

Autoignition Temperature

N/A

Boiling Point / Range

N/A

Vapor Density (Air = 1)

N/D

Evaporation Rate (n-butyl acetate = 1)

N/A

pH

N/A

Log Pow (n-Octanol/Water Partition Coefficient):

N/A

Solubility in Water

Negligible

Viscosity

N/D

Oxidizing Properties

See **Sections 3, 15, 16.**

OTHER INFORMATION

Freezing Point

N/A

Melting Point

N/A

Coefficient of Thermal Expansion

N/A

N/A = NOT AVAILABLE

N/D = NOT DETERMINED

SECTION 10 - Stability & Reactivity

STABILITY

- Material is stable under normal conditions.

CONDITIONS TO AVOID

- Excessive heat. Elevated temperatures.

MATERIALS TO AVOID

- Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS

- Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION

- Will not occur.

SECTION 11 - Toxicological Information

ACUTE TOXICITY

• INHALATION

- TOXICITY: LC50 > 5 mg/kg
- IRRITATION: No end point data.
- REMARKS: Minimally Toxic.

Elevated temperatures or mechanical action may form vapors, mist, or fumes, which may be irritating to the eyes, nose, throat, or lungs.

• INGESTION

- TOXICITY: LC50 > 2000 mg/kg
- REMARKS: Minimally Toxic.

• SKIN

- TOXICITY: LD50 > 2000 mg/kg
- IRRITATION: No end point data.
- REMARKS: Minimally Toxic.

Mildly irritating to skin with prolonged exposure.

• EYES

- IRRITATION: No end point data.
- REMARKS: May cause mild, short-lasting discomfort to eyes.

SIGNS & SYMPTOMS OF EXPOSURE

- To the best of our knowledge, the chemical, physical, and toxicological properties have NOT been thoroughly investigated.

SECTION 12 - Ecological Information

- The information is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY EFFECTS

- Material - Not expected to be harmful to aquatic organisms.

PERSISTENCE AND DEGRADABILITY

• BIODEGRADATION:

- A component - Expected to be inherently biodegradable.

SECTION 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

- Contact a licensed professional waste disposal service to dispose of this material.
- Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and a scrubber.
- Observe all federal, state, and local environmental regulations.

CONTAMINATED PACKAGING

- PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous.
- DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.
- Do not attempt to refill or clean container since residue is difficult to remove.
- Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner.
- All containers should be disposed of in an environmentally safe manner and in the accordance with government regulations.

SECTION 14 - Transportation Information

DOT (LAND)

- Not Regulated for Land Transport.

TDG (LAND)

- Not Regulated for Land Transport.

IMDG (SEA)

- Not Regulated for Sea Transport according to IMDG-Code.

IATA (AIR)

- Not Regulated for Air Transport.

SECTION 15 - Regulatory Information

OSHA HAZARDS

- When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING

- IECSC, DSL, EINECS, ENCS, KECI, TSCA

EPCRA

- This material contains no extremely hazardous substances.

CERCLA

- This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Contact local authorities to determine if other reporting requirements apply.

SARA (311/312) REPORTABLE HAZARD CATEGORIES

- None

SARA (313) TOXIC RELEASE INVENTORY

- SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

The following ingredients are Cited on the Lists Below:

- **Chemical Name:** SOLVENT DEWAXED HEAVY PARAFFINIC DISTILLATE
- **CAS Number:** 64742-65-0
- **List Citations:** 13, 18

REGULATORY LISTS SEARCHED

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

- Code key: CARC = Carcinogen
REPRO = Reproductive

SECTION 16 - Other Information

DISCLAIMER

- For R&D use only. Not for drug, household, or other use.

WARRANTY

• 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 this product. Hampton Research Corp., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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