

6129 A

## SAFETY DATA SHEET

NORMAC ADHESIVE PRODUCTS INC.

900R-NPB

## Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Products Name:** Normac 900R-NPB  
**Chemical Family:** Rubber Adhesive  
**Chemical Name:** Chloroprene Polymer dissolved in N-propyl bromide, Stabilized.  
**Applications:** Rubber Adhesive

**Supplier's Name:** Normac Adhesive Products Inc.  
1350 Heine Court  
Burlington, Ontario, Canada, L7L 6M4  
Tel: (905) 332-6455 Fax: (905) 332-6880

**Prepared by:** Regulatory Affairs Group of Normac Adhesive Products Inc.  
**Preparation Date of SDS:** October 23, 2015  
**24 Hour Emergency Telephone Number (Canutec):** (613) 996-6666

## Section 2 – HAZARD(S) IDENTIFICATION

**WHMIS Hazardous Class:** D2B TOXIC MATERIALS

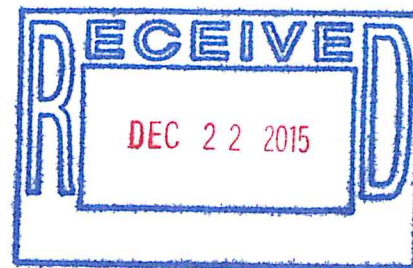
**NFPA RATINGS:** HEALTH 1; FLAMMABILITY 0; INSTABILITY: 0  
**HMIS RATINGS:** HEALTH 1; FLAMMABILITY 0; INSTABILITY: 0

**HAZARD STATEMENTS:**

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H360FD May damage fertility. May damage the unborn child.  
H371 May cause damage to organs.  
H412 Harmful to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS:**

P201 Obtain special instructions before use.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing.  
P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.



P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**GHS Labeling**  
Pictograms



**Section 3- COMPOSITION / INFORMATION ON INGREDIENTS**

	Cas No.	Percentage* (W/W)	Exposure Limits ACGIH	OHSA
N-Propyl Bromide	106-94-5	< 85	100 ppm	N.A.
t-Butanol	75-65-0	< 3	100 ppm	N.A.
1,2 Butylene Oxide	106-88-7	< 1	400 ppm	N.A.
Acetonitrile	75-05-8	< 1	N.A.	N.A.

*\*Exact percentages are withheld as a trade secret however the health and environmental hazard effects stated in this SDS describe the effects of the highest concentration of each ingredient; in compliance with (ST/SG/AC.10/30/Rev.6) and (29 CFR 1910.1200).*

**Section 4 - FIRST AID MEASURES**

**Eye Contact:**

Flush eyes immediately with water for at least 20 minutes. Hold eyelids open during flushing. Obtain medical attention.

**Skin Contact:**

Remove contaminated clothing. Wipe excess material from the skin. Wash skin with soap and water. Obtain medical attention if irritation develops.

**Inhalation:**

Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical attention immediately.

**Ingestion:**

Wash mouth with plenty of water. Only if victim is conscious, give a large glass of water. Obtain medical attention immediately.

**Routes of Entry:**

Eyes, skin, ingestion, inhalation, mist.

---

**Section 5 – FIRE FIGHTING MEASURES**


---

<b>Flash Point:</b>	None
<b>Flash Point Method:</b>	Tag Closed Cup (refer to section 16).
<b>Auto Ignition Temp:</b>	409°C.
<b>Thermal Decomposition:</b>	204°C.
<b>Flammable Limits in air (%):</b>	LEL 4.0%, UEL 7.8%.
<b>Extinguishing Media:</b>	Use DRY Chemicals, carbon dioxide or foam..
<b>Hazardous Decomposition/ Combustion Materials:</b>	Thermal decomposition products may include hydrogen halides and oxides of carbon.
<b>Special Protective Equipment:</b>	Wear protective clothing and self-contained breathing apparatus.
<b>Unusual Fire/Explosion Hazard:</b>	None.
<b>NFPA RATINGS:</b>	HEALTH 1; FLAMMABILITY 0; INSTABILITY: 0
<b>HMIS RATINGS:</b>	HEALTH 1; FLAMMABILITY 0; INSTABILITY: 0

---

**Section 6 – ACCIDENTAL RELEASE MEASURES**


---

**Personal Precautionary Measures:** Wear appropriate protective equipment.

**Environmental Precautionary Measures:** Prevent entry into sewers or streams, dike if needed.

**Procedure for Clean Up:** Prevent contamination of soil. Consult Local authorities. Immediately evacuate the area. Isolate hazard area and restrict access. Prevent contamination of waterways. Absorb with an inert dry material and place in an appropriate waste disposal container. Large spills, dike and pump into suitable containers. Clean up all residual with absorbent material. Place in appropriate container. Notify applicable government authority if release is reportable or could adversely affect the environment. Ventilate the area thoroughly.

---

**Section 7 – HANDLING AND STORAGE**


---

**Handling:** For industrial use only. Use only with adequate ventilation. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personal protective equipment. Use normal "good" industrial hygiene and housekeeping practices.

**Storage:** Store in a cool, dry, well ventilated area. Keep containers tightly closed. Do not store in open containers.

---

**Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**


---

**Engineering Controls:** Local exhaust ventilation is required to maintain exposure to within applicable limits. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation.

**Respiratory Protection:** If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak



**SDS 900R-NPB Rev. 7**

**Gloves:** resulting in unknown concentration, use a NIOSH approved supplied air respirator.  
Impervious chemical resistant gloves.

**Skin Protection:** Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential.

**Eyes:** Chemical goggles; also wear a face shield if splashing hazard exists.  
**Other Personal Protective Data:** Ensure that eyewash stations and safety showers are proximal to the work station location.

	<b>Exposure Limit ACGIH</b>	<b>Exposure Limit OHSA</b>	<b>Exposure Limit Immediately Dangerous to Life or Health – IDLH</b>
N-Propyl Bromide (Stabilized)	100 ppm	100 ppm	N.A.

---

**Section 9 – PHYSICAL AND CHEMICAL PROPERTIES**


---

**Physical State:** Liquid.  
**Colour:** Black.  
**Specific Gravity:** 1.30 g/cc @ 20°C  
**Boiling Point:** 68°C  
**Melting/Freezing Point:** -110°C (Solidification temperature)  
**Vapour Pressure:** 111 mm Hg @ 20°C  
**Vapour Density (air = 1)** 4.3  
**Volatile Organic Compounds:** 80 – 87%  
**Viscosity:** 2,500 – 4,500 cps.  
**Odour:** Characteristic – irritating at high temperatures  
**Odour Threshold:** Not available  
**Evaporation Rate:** Low

---

**Section 10 – STABILITY AND REACTIVITY**


---

**Chemical Stability:** Stable under normal conditions see also Section 7.  
**Hazardous Polymerization:** Will not occur.  
**Conditions to Avoid:** Heat. Compatible with almost all metals except Calcium.  
**Materials to Avoid:** Oxidizing agents, alkali metals and finely powdered Aluminum.  
**Hazardous combustion Products:** Oxides of carbon hydrogen halides.

---

**Section 11 – TOXICOLOGICAL INFORMATION**


---

**Toxicological Data:** **n-propyl bromide**  
**Oral LD50:** = 4,260 mg/kg (Rat)  
**Dermal LD50:** = 540 mg/kg (Rabbit)  
**Inhalation LC50:** = 253 mg/m<sup>3</sup> (rat)  
**Ames Test:** = Negative.  
**Carcinogenicity:** **IARC** – No **NTP** - No  
**ACGIH** –No **OSHA** – No.

---

**Section 12 - ECOLOGICAL INFORMATION**

---

**Ecotoxicological Information:** Product sinks in water.  
GWP (Global Warming potential 100 year horizon): 0.31  
ODP (Ozone Depleting potential): 0.002 – 0.03  
Atmospheric Lifetime: 11 days

---

**Section 13 – DISPOSAL CONSIDERATIONS**

---

**Disposal of Waste Method:** Disposal of all wastes must be done in accordance with local, state/provincial and federal regulations.  
**Contaminated Packaging:** Empty containers should be recycled or disposed of through an approved waste management facility.

---

**Section 14 – TRANSPORT INFORMATION**

---

**Proper Shipping Name:** This product is Not Regulated.  
**TDG (IATA and IMO):** This product is Not Regulated.  
**Hazard Label / Placards:** None

---

**Section 15 – REGULATORY INFORMATION**

---

**U.S. TSCA Inventory Status:** All compounds of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.  
**Canadian DSL Inventory Status:** All compounds of this product are either on the Domestic Substances List (DSL); the Non- Domestic Substances List (NDSL) or exempt.  
**WHMIS Hazardous Class:** D2B TOXIC MATERIALS causing other effects.  
**NFPA RATINGS:** HEALTH 1; FLAMMABILITY 0; INSTABILITY: 0  
**HMIS RATINGS:** HEALTH 1; FLAMMABILITY 0; INSTABILITY: 0

---

**Section 16 – OTHER INFORMATION**

---

Some references give various flash points for N-Propyl Bromide (nPB) indicating that is flammable. The current CHIP regulations show that it DOES NOT have a flash point. Third party lab tests show that this product is non flammable:

**ASTM D92:**

Standard Test Method for Flash Point by Cleveland Open Cup: No flash point to Initial Boiling Point (68°C)

**ASTM D93:**

Standard Test Method for Flash Point by Pensky-Martens Closed Tester: No flash point to Initial Boiling Point.

**ASTM D56:**

Standard Test Method for Flash Point by Tag Closed Tester: No flash point to Initial Boiling Point (68°C).

The following health effects have been reported among workers with high exposures to nPB:

- Leg weakness and pain leading to a difficulty with standing and walking (stumbling).
  - Numbness, tingling, and prickling in legs.
  - Headache, dizziness, nausea, memory and concentration difficulties.
- 

All employees or contractors etc. who use this product must have access to this Safety Data Sheet.

This information is furnished without warranty, representation, inducement or licence of any kind, except that it is accurate to the best of Normac Adhesive Products Inc. knowledge or is obtained from sources believed by Normac Adhesive Products Inc. to be accurate. Normac Adhesive Products Inc. makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use or reliance on same. Customers are encouraged to conduct their own tests.

**DATE OF ISSUE:**

Oct. 23, 2015

**HISTORY REVISION:**

SDS updated to comply with GHS regulations.

Replaces MSDS dated Dec 01, 2014.

**PREPARED BY:**

Regulatory Affairs Group

**\*\*\*END OF SDS\*\*\***

SDS Code: 900R-NPB - 7