



MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT INFORMATION

Product Identifier: NATCO REPAIR SEAL, INNER-LINER REPAIR SEAL, Part #: RS-16, RS-32, RS-128	Chemical Family: Rubber Compound
Formula: Trichloroethylene & Rubber Blend	T.D.G. Classification: Class 6.1, UN1710, Packing Group III
W.H.M.I.S Classification: D 1B, D 2B	
Manufacturer's Name: Natco Manufacturing Ltd.	Address: 1456 Church Avenue, Winnipeg, Manitoba CANADA R2X 1G4 Tel: (204) 633-5432 Fax: (204) 694-3320

SECTION 2 — PREPARATION INFORMATION

Prepared On: January 1, 2017	Supersedes: January 1, 2016	Changes: None
Prepared By: Technical Department	Emergency Phone Number: (204) 482-1214	
The information provided in this material safety data sheet is believed to be reliable. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the materials if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their own use of the material.		

SECTION 3 — HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>CAS No.</u>	<u>% (w/w)</u>	<u>TWA ppm</u>	<u>LD 50 (oral, rat) mg/kg</u>	<u>LC 50 (inh, rat) ppm/4hr</u>	<u>HAZARD</u>
Trichloroethylene*	1079-01-6	100	50	5650	8450	Flammable Irritant
Carbon Black < 5*			3.5 mg / m ³			Irritant
Aromatic / Naphthenic Oil						
* Exact Formula — Proprietary Generated by Natco Manufacturing Ltd.						

SECTION 4 — PHYSICAL DATA

Physical State: Black Liquid	Color: Black	Odour: Sweet Odour	Boiling Point: 189° F (87° C)
Freezing Point: -99° F (-73° C)	Vapour Pressure: 58 mmHg @ 20° C	Vapour Density (air=1): 4.53	Specific Gravity (water=1): 1.4642
Water Solubility: 0.1%	PH: Not Available	Volatility: Not Available	Odour Threshold: 21 ppm
Evaporation Rate: 0.69 (carbon tetra- chloride = 1)	Co-efficient of Water/Oil Distribution: Not Available	Solvent Solubility (Soluble): Alcohol, ether, acetone, chloroform, benzene, vegetable oils	

SECTION 5 — FIRE AND EXPLOSION DATA

Fire: Auto-ignition Temperature: 420° C (788° F)	Flammable Limits in Air % by Volume: lcl: 8, ucl: 12.5
Explosion: A strong ignition source. eg: a welding torch can produce ignition. Sealed containers may rupture when heated.	Risks of Explosion of the product in presence of mechanical impact: Not Available Risks of Explosion of the product in presence of static discharge: Not Available
Flammability: Flammable	Conditions to Avoid: Avoid heat, sparks, and other sources of ignition
Fire Extinction Media: Use water spray to keep fire exposed containers cool. If substance does ignite use Carbon dioxide (CO ₂), dry chemical, or foam.	Special Information: In the event of a fire, wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Combustion by-products include phosgene and hydrogen chloride gases. Structural firefighters' clothing provides only limited protection to the combustion products of this material.

SECTION 6 — TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE:
EYES — Vapours may cause severe irritation with redness and pain. Splashes may cause eye damage
SKIN — Can cause irritation, redness and pain. Can also cause blistering. Continued skin contact has a de-fatting action and can produce rough, dry, red skin resulting in secondary infection:
INHALATION — Irritating. Following absorption, progresses through headache, nausea, fatigue, weakness, dizziness, drowsiness, excitement, loss of consciousness, irregular pulse and ventricular fibrillation. DO NOT SMOKE WHEN USING THIS PRODUCT
INGESTION — Irritating. Following absorption, progresses through headache, nausea, fatigue, weakness, dizziness, drowsiness, excitement, loss of consciousness, irregular pulse and ventricular fibrillation. DO NOT SMOKE WHEN USING THIS PRODUCT
CARCINOGENICITY — Not Available
REPRODUCTIVE TOXICITY — No evidence of effect
SYNERGISTIC MATERIAL — Not Available
SENSITIZATION — None

SECTION 7 — FIRST AID MEASURES

EYE CONTACT:	Flush eyes with plenty of running water, holding eyelids open for at least 15—20 minutes. Obtain medical attention if irritation persists.
SKIN CONTACT:	Wash with soap and plenty of water. Remove contaminated clothing and launder before re-use. If irritation is present or develops, seek medical care.
INHALATION:	Remove from contaminated area promptly. If breathing stops, administer artificial respiration and seek medical assistance immediately. Rescuers should wear respiratory protection. If necessary, a qualified person should administer oxygen.
INGESTION:	Give victim 2-8 ounces of water to dilute product (only to conscious victim). DO NOT induce vomiting, as it may cause severe lung damage through aspiration of product into the lungs. Keep victim warm and quiet. If vomiting occurs, keep victim's head below the hips to prevent inhalation of vomit. Seek medical attention immediately.

SECTION 8 — HEALTH HAZARDS

Effects of Chronic Exposure:	Chronic exposures may cause liver, kidney, central nervous system, and peripheral nervous system effects. Workers chronically exposed may exhibit central nervous system depression, intolerance to alcohol, and increased cardiac output. Persons with such conditions should not be allowed to be exposed to high concentrations of this product.
Other Health Hazards:	This material is linked to mutagenic effects in humans. This material is also a suspect carcinogen.

SECTION 9 — PREVENTATIVE MEASURES

Handling Procedures: Avoid unnecessary or prolonged contact with skin, and wash work clothes frequently. This product may react vigorously with finely divided aluminum. Corrosion may result from reaction with aluminum fittings and equipment. An eye bath and safety shower should be available near the workplace.
Storage Requirements: Store and use in a cool, well ventilated environment. Avoid basement storage which may lead to trapping of heavy vapour. Smoking in the presence of the product vapour is hazardous due its decomposition into toxic gases.
Leak & Spill Procedures: Dyke to control spillage and prevent environmental contamination. Ventilate contaminated area. Recover free liquid with a pump. Absorb residue on an inert sorbent (dry sand, earth), and store in closed containers for disposal. Contaminated soil must be dug up and treated to protect groundwater.
Waste Disposal: Do not flush to a sewer. Dispose of by controlled incineration or use disposal service in accordance with federal, provincial, and local laws and regulations.

SECTION 10 — PROTECTIVE EQUIPMENT

RESPIRATORY:	Mechanical ventilation. NIOSH or MSHA approved air supplied respirator is advised.
VENTILATION:	Provide general (mechanical) ventilation and/or local exhaust to insure exposure levels are not exceeded.
EYES:	Chemical splash goggles or other safety type glasses.
HANDS	"Nitrile", "Viton", or rubber impermeable gloves. Consult your safety supplier.
FEET:	Safety boots should be worn.
OTHER:	Wear full body covering clothing to prevent repeated or prolonged skin contact. Work areas should be equipped with an eye bath and safety shower.

SECTION 11 — REACTIVITY DATA

Stability:	Stable under ordinary conditions of use and storage. Will slowly decompose to hydrochloric acid when exposed to light and moisture.
Incompatible Materials:	Avoid contact with strong caustics and alkalis, strong oxidizers, chemically active metals, such as barium, lithium, sodium, magnesium, titanium, beryllium, and liquid oxygen.
Hazardous Decomposition Products:	May produce Carbon monoxide, carbon dioxide, hydrogen chloride and phosgene when heated to decomposition.
Hazardous Polymerization:	Will not occur.
Conditions To Avoid:	Heat, flame, ignition sources, light, moisture, incompatibles.

FOR INDUSTRIAL USE ONLY