

C10, C5 Northland BreakThru - Fast Penetrating Oil

MATERIAL SAFETY DATA SHEET

Date Prepared: 08/2016

SECTION 1 — PRODUCT IDENTIFICATION

CFIA # N184 – Acceptable For Food Plant Use In Canada

Name of Supplier:

NLS Products

Box 790, 1 Lakewood Crescent

Bobcaygeon, ON K0M 1A0

Tel: (705) 738-2321 Fax: (705) 738-4550

Product Name: Northland BreakThru – Fast Penetrating Oil

Product Stock #'s: C5, C10, BT60SC, BT60BP

This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this product. Please read the information on these sheets and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL, STATE and COMMUNITY RIGHT TO KNOW regulations. Also, make this information available to any employee who requests it.

WHMIS CLASS: B5

T.D.G. CLASS: CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.1).

D.O.T. CLASS: CONSUMER COMMODITY, ORM-D.

SECTION 2 — PHYSICAL DATA

PHYSICAL STATE: AEROSOL. APPEARANCE: CLEAR AMBER LIQUID. ODOR: CHARACTERISTIC.
ODOR THRESHOLD: NOT AVAILABLE. VAPOUR PRESSURE (PSIG)-AEROSOL @ 20 C: 40-50.
BOILING POINT (°C)(CONC): >315. EVAPORATION RATE n-BUTYL ACETATE = 1: LESS THAN 1.
VAPOUR DENSITY (AIR=1) (BY WEIGHT): GREATER THAN 1. pH: NOT APPLICABLE.
SOLUBILITY IN WATER g/L (20°C): NEGLIGIBLE. SPECIFIC GRAVITY (LIQUID): 0.88-0.92.
COEFFICIENT OF WATER/OIL DIST: NOT AVAILABLE. FREEZING POINT: (°C): NOT AVAILABLE.
AEROSOL PERCENT VOLATILE (BY WEIGHT): 90-95. SPECIFIC GRAVITY (AEROSOL): 0.72-0.89.
VOLATILE ORGANIC COMPOUND (W/W%): 30.

SECTION 3 — HAZARDOUS INGREDIENTS

CAS #	Hazardous Ingredients	%	Exposure Limit	LD/50 Route, Species	LC/50 Route, Species
64742-52-5	Hydrotreated Heavy Naphthenic Distillate	60-100	5 mg/m3	Not Available	Not Available
68608-26-4	Sodium Petroleum Sulfonate	1-5	5 mg/m3	Not Available	Not Available
108-94-1	Cyclohexanone	5-10	25 ppm	1535 mg/kg oral - rat	8000 ppm (4hr) inhal - rat
75-28-5	Isobutane	3-7	1000 ppm	Not Applicable	142,500 ppm (4hr) inhal - rat
74-98-6	Propane	7-13	1000 ppm	Not Applicable	Not Available

SECTION 4 — FIRE AND EXPLOSION HAZARD DATA

AUTO IGNITION TEMPERATURE (°C): NOT AVAILABLE.
SPECIAL PROCEDURES: WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.

FLAMMABILITY: EXTREMELY FLAMMABLE.
IF YES, UNDER WHICH CONDITIONS: EXCESSIVE HEAT, SPARKS AND OPEN FLAME.
EXTINGUISHING MEDIA: WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.
UPPER FLAMMABLE LIMIT (% BY VOLUME): 8.1. **LOWER FLAMMABLE LIMIT (% BY VOLUME):** 1.1.
EXPLOSION DATA: SENSITIVITY TO STATIC DISCHARGE: NOT APPLICABLE.
SENSITIVITY TO IMPACT: NOT APPLICABLE.
HAZARDOUS COMBUSTION:
PRODUCTS: HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.

AEROSOL FLAME PROJECTION:
CLASSIFIED AS: >45cm BUT <100cm. **FLASHBACK:** YES.
FLASH POINT (°C), TAG CLOSED-CUP: LOWEST KNOWN VALUE IS CYCLOHEXANONE @ 44C.
(CONCENTRATE)

SECTION 5 — HEALTH HAZARD DATA

ROUTE OF ENTRY:
INGESTION: MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.
INHALATION: INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIAN.
EYE CONTACT: VAPORS MAY IRRITATE.
SKIN ABSORPTION: NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.
SKIN CONTACT: MAY CAUSE IRRITATION.
EFFECTS OF ACUTE EXPOSURE: DIZZINESS, NAUSEA, IRRITATION TO SKIN & EYES.
EFFECTS OF CHRONIC EXPOSURE: SOLVENTS MAY CAUSE DEFATTING DERMATITIS
EXPOSURE LIMIT OF MATERIAL: SEE SECTION 3.
EMERGENCY FIRST AID PROCEDURE: IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

SECTION 6 — REACTIVITY DATA

HAZARDOUS PRODUCTS OF DECOMPOSITION: HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.

CHEMICAL STABILITY:
YES: UNDER NORMAL CONDITIONS.
NO, WHICH CONDITIONS: NOT APPLICABLE.
COMPATIBILITY WITH OTHER SUBSTANCES:
NO, WHICH ONES: STRONG OXIDIZING AGENTS.
REACTIVITY CONDITIONS: NOT APPLICABLE.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 7 — SPECIAL PROTECTION INFORMATION

GLOVES/ TYPE: WEAR CHEMICAL RESISTANT GLOVES. **EYE/TYPE:** SAFETY GLASSES.

RESPIRATORY/TYPE: IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS RECOMMENDED.

FOOTWEAR/TYPE: NOT NORMALLY REQUIRED. **OTHER/TYPE:** NOT REQUIRED.

SECTION 8 — SPILL OR LEAK PROCEDURES

LEAK/SPILL: REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.

WASTE DISPOSAL: DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATION

SECTION 9 — SPECIAL PRECAUTIONS

STORAGE NEEDS: KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.

SYNERGISTIC MATERIALS: NONE KNOWN.

ENGINEERING CONTROLS: VENTILATION-LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS).

HANDLING PROCEDURES AND EQUIPMENT: STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C.

SECTION 10 — TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS: NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.

IRRITANCY OF MATERIAL: SLIGHT. **SENSITIZING CAPABILITY OF MATERIAL:** UNKNOWN.

CARCINOGENICITY OF MATERIAL: THE INGREDIENTS OF THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY NTP, (NATIONAL TOXICOLOGY PROGRAM), NOT REGULATED AS CARCINOGENS BY OSHA, (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND HAVE NOT BEEN EVALUATED BY IARC, (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER), NOR BY ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS).

TERATOGENICITY: NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.

MUTAGENICITY: NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.

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NLS Products Box 790, 1 Lakewood Crescent

Bobcaygeon, ON K0M 1A0

Phone: (705) 738-2321 Fax: (705) 738-4550

www.nlsproducts.ca