



NANO ProMT Penetrating Lubricant is an innovative formula with universal capabilities. Developed to lubricate deeply into the spaces between rusted, metal-to-metal parts. It speeds maintenance activities and provides a barrier to future corrosion and rust. Foaming action and excellent creep properties allow the nano particles to achieve 100% coverage for fast removal of friction welded components.

DESCRIPTION	NANO PENETRATING LUBRICANT
PART#	NDT11P
UPC CODE	8 53770 00408 8
SCC CODE	1 08 53770 00408 5
HARMONIC CODE	2710.19.30
PACKAGE CONTENTS	11 oz
SELLING UNIT WEIGHT	0.85 pounds
SELLING UNIT DIMENSION	2.6" x 2.6" x 7.9"
SELLING UNIT CUBE	0.030 cubic feet
CASE PACK	12
CASE WEIGHT	12 pounds
CASE DIMENSION	10.9" x 8.4" x 8.8"
CASE CUBE	0.46 cubic feet
CASES PER PALLET	108
CASES/LAYER	18
LAYERS/PALLET	6
WEIGHT/PALLET	1,134 + 40 (total weight 1,174 lbs)

ProNIT

SAFETY DATA SHEET

1. Identification

Product identifier Nano All-In-One Universal Penetrating Lubricant

Other means of identification

 SDS number
 NDT11P

 Part No.
 NDT11P

 Tariff code
 3403.19.5000

Recommended use Lubricant
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Nano ProMT LLC

Address 7427 Matthews Mint Hill Road, Suite 201

Mint Hill, NC 28227

TelephoneNot available.E-mailNot available.Contact personChris HunterEmergency phone numberNot available.

2. Hazard(s) identification

Physical hazards Flammable aerosols Classification not possible

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Causes serious eye irritation.

Causes skin irritation.

Precautionary statement

Prevention Avoid release to the environment. Wear protective gloves. Wash thoroughly after handling. Wear

eye protection/face protection.

Response Collect spillage. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get

medical advice/attention. Take off contaminated clothing and wash before reuse. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Storage Not available.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 56.08% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 56.08% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

SDS US

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Dioctyl Adipate		103-23-1	25.22
Carbon Dioxide		124-38-9	2.22
Bht (butylated Hydroxytoluene)		128-37-0	1.96
Phosphonic Acid, Polymers With Diisopropanolamine N-tallow Alkyl Derivs., Oleates (esters)		141808-04-0	1.66
Calcium Carbonate		471-34-1	< 1
Paraffin Oils (petroleum), Catalytic Dewaxed Heavy		64742-70-7	0.11
Other components below reportable I	evels		60 - < 70

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

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist. If symptoms develop move

victim to fresh air. Get medical attention if symptoms persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Wash with

plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Remove

contaminated clothing. Wash contaminated clothing before reuse.

Eve contact Rinse with water. Get medical attention if irritation develops and persists. If eye irritation persists:

Get medical advice/attention. Immediately flush eyes with plenty of water for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion Get medical attention if symptoms occur. Rinse mouth. In the unlikely event of swallowing contact

a physician or poison control center.

Most important symptoms/effects, acute and

delayed

Indication of immediate

medical attention and special treatment needed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Treat symptomatically. Symptoms may be delayed. Keep victim under observation. Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information**

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Carbon dioxide (CO2). Foam. Powder.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Not applicable.

Special protective equipment and precautions for firefighters Not available.

Fire fighting

equipment/instructions

Containers should be cooled with water to prevent vapor pressure build up.

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. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

Methods and materials for containment and cleaning up

Prevent product from entering drains. Stop the flow of material, if this is without risk.

Small Spills: Absorb in vermiculite, dry sand or earth and place into containers. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Isolate area until gas has dispersed.

Large Spills: Dike the spilled material, where this is possible.

Never return spills to original containers for re-use. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Refer to attached safety data sheets and/or instructions for use. Scoop up used absorbent into drums or other appropriate container. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Avoid contact with eyes, skin, and clothing. Pressurized container: Do not pierce or burn, even after use. Do not spray on a naked flame or any other incandescent material. Do not use if spray button is missing or defective. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in well-ventilated areas. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Avoid contact with eyes. Do not re-use empty containers.

Conditions for safe storage, including any incompatibilities

Store away from incompatible materials (see Section 10 of the SDS). Keep container tightly closed. Store in original tightly closed container. Keep out of the reach of children. Do not handle or store near an open flame, heat or other sources of ignition. Contents under pressure. Do not puncture, incinerate or crush. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Level 1 Aerosol.

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	Form
Calcium Carbonate (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
•		15 mg/m3	Total dust.
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
,		5000 ppm	
Paraffin Oils (petroleum), Catalytic Dewaxed Heavy (CAS 64742-70-7)	PEL	5 mg/m3	Mist.
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
Bht (butylated Hydroxytoluene) (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
,	TWA	5000 ppm	
Paraffin Oils (petroleum), Catalytic Dewaxed Heavy (CAS 64742-70-7)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Che	nical Hazards		
Components	Туре	Value	Form
Bht (butylated Hydroxytoluene) (CAS 128-37-0)	TWA	10 mg/m3	

US. NIOSH: Pocket Guide to Che Components	mical Hazards Type	Value	Form
Calcium Carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
,		10 mg/m3	Total
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
,		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Paraffin Oils (petroleum), Catalytic Dewaxed Heavy (CAS 64742-70-7)	STEL	10 mg/m3	Mist.
()	TWA	5 mg/m3	Mist.

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. Provide eyewash station. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves. Wear appropriate chemical

resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear suitable protective clothing. Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. If permissible levels are

exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Dust

mask.

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. When using do not smoke.

9. Physical and chemical properties

AppearanceOpaque LiquidPhysical stateLiquid, Gas.FormAerosol. Liquid.ColorDark brownOdorPetroleumOdor thresholdNot available.

Melting point/freezing point -90.04 °F (-67.8 °C) estimated Initial boiling point and boiling 469.04 °F (242.8 °C) estimated

range

Flash point 250.0 °F (121.1 °C) estimated

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower

0.8 % estimated

Not available.

(%)

Flammability limit - upper

8.5 % estimated

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

0.01 hPa estimated Vapor pressure

Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. **Partition coefficient**

(n-octanol/water)

530.6 °F (277 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Density 7.80 lbs/gal estimated

Not explosive. **Explosive properties**

Flame extension No Flame Extension

Flammability (flash back) No

Heat of combustion (NFPA

30B)

0.03 kJ/g estimated

Oxidizing properties Not oxidizing. Percent volatile 0.18 % estimated 0.93 estimated Specific gravity

10. Stability and reactivity

Reactivity Not available. Not available. Chemical stability Not available. Possibility of hazardous

reactions

Contact with incompatible materials. Conditions to avoid

Not available. Incompatible materials **Hazardous decomposition** Not available.

products

11. Toxicological information

Information on likely routes of exposure

Not available. Inhalation

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation. Causes serious eye irritation.

Not available. Ingestion

Symptoms related to the

physical, chemical and

toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

890 mg/kg

vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results	
Bht (butylated Hydroxytolu	uene) (CAS 128-37-0)		
<u>Acute</u>			
Oral			
LD50	Guinea pig	10700 mg/kg	
	Mouse	1040 mg/kg	

Material name: Nano All-In-One Universal Penetrating Lubricant

Rat

SDS US NDT11P Version #: 01 Issue date: 08-09-2016

Components Species Test Results

Calcium Carbonate (CAS 471-34-1)

<u>Acute</u>

Oral

LD50 Mouse 6450 mg/kg

Rat 6450 mg/kg

Dioctyl Adipate (CAS 103-23-1)

Acute Oral

LD50 Rat 5.6 g/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye Dir

irritation

Direct contact with eyes may cause temporary irritation. Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not available.

Germ cell mutagenicity Not available.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Bht (butylated Hydroxytoluene) (CAS 128-37-0)
3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Paraffin Oils (petroleum), Catalytic Dewaxed Heavy (CAS Known To Be Human Carcinogen.

64742-70-7)

Reproductive toxicity Not available.

Specific target organ Not available.

toxicity - single exposure

Specific target organ

toxicity - repeated

exposure

Not available.

Aspiration hazard Not available.

12. Ecological information

Ecotoxicity Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Components Species Test Results

Bht (butylated Hydroxytoluene) (CAS 128-37-0)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 1.44 mg/l, 48 hours

Calcium Carbonate (CAS 471-34-1)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) > 56000 mg/l, 96 hours

Dioctyl Adipate (CAS 103-23-1)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 0.48 - 0.85 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects Not available.

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

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

13. Disposal considerations

Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in **Disposal instructions**

accordance with local/regional/national/international regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations. Collect and reclaim or

dispose in sealed containers at licensed waste disposal site.

Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

Dispose in accordance with all applicable regulations.

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).

Do not re-use empty containers. Empty containers should be taken to an approved waste handling Contaminated packaging

site for recycling or disposal. Since emptied containers may retain product residue, follow label

warnings even after container is emptied.

14. Transport information

DOT

Not available. **UN** number

UN proper shipping name

Consumer Commodity

Aerosol, non-flammable

Transport hazard class(es)

ORM-D Class

Subsidiary risk

Not applicable. Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN1950 **UN** number

UN proper shipping name

Transport hazard class(es)

Class 2.2 Subsidiary risk

Packing group Not applicable.

Environmental hazards

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN1950 **UN number**

UN proper shipping name Transport hazard class(es)

Aerosols, MARINE POLLUTANT

2.2 Class Subsidiary risk

Packing group Not applicable.

Environmental hazards

Marine pollutant Yes F-D. S-U

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 Not available.

the IBC Code

Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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 regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

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

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

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Dioctyl Adipate (CAS 103-23-1)

Paraffin Oils (petroleum), Catalytic Dewaxed Heavy (CAS 64742-70-7)

US. Massachusetts RTK - Substance List

Bht (butylated Hydroxytoluene) (CAS 128-37-0)

Calcium Carbonate (CAS 471-34-1) Carbon Dioxide (CAS 124-38-9)

Dioctyl Adipate (CAS 103-23-1)

Paraffin Oils (petroleum), Catalytic Dewaxed Heavy (CAS 64742-70-7)

US. New Jersey Worker and Community Right-to-Know Act

Bht (butylated Hydroxytoluene) (CAS 128-37-0)

Calcium Carbonate (CAS 471-34-1) Carbon Dioxide (CAS 124-38-9)

Dioctyl Adipate (CAS 103-23-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Bht (butylated Hydroxytoluene) (CAS 128-37-0)

Calcium Carbonate (CAS 471-34-1)

Carbon Dioxide (CAS 124-38-9)

Dioctyl Adipate (CAS 103-23-1)

Paraffin Oils (petroleum), Catalytic Dewaxed Heavy (CAS 64742-70-7)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS) No

Japan Inventory of Existing and New Chemical Substances (ENCS) No

Korea Existing Chemicals List (ECL) No

New Zealand New Zealand Inventory No

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

16. Other information, including date of preparation or last revision

Issue date 08-09-2016

Version # 01

HMIS® ratings Health: 2

Flammability: 0

Physical hazard: 0

NFPA ratings Health: 2

Flammability: 0 Instability: 0

NFPA ratings



Disclaimer

Nano ProMT LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).