SAFETY DATA SHEET



1. Identification

Product identifier	Nano Dry Lubricant	
Other means of identification		
SDS number	NDT11D	
Part No.	NDT11D	
Tariff code	2905.120050	
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	
	Charlotte, NC 28227	
Telephone	Not available.	
E-mail	Not available.	
Contact person	Chris Hunter	
Emergency phone number	(704) 408-3641	

2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 1
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

Label elements



Signal word Danger Hazard statement Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. **Precautionary statement** Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash Response with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	53.31% of the mixture consists of component(s) of unknown acute oral toxicity. 53.31% of the mixture consists of component(s) of unknown acute dermal toxicity. 77.31% of the mixture consists of component(s) of unknown acute inhalation toxicity. 77.31% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 77.31% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.
	NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The container label may not include the OSHA label elements listed in this document. Always carefully review the entire SDS and the product label prior to use in the workplace.

3. Composition/information on ingredients

Common name and synonyms	CAS number	%
	67-63-0	40 - < 50
	68476-86-8	30 - < 40
	142-82-5	20 - < 30
	8012-95-1	< 0.1
ed	64742-48-9	< 0.1
	Common name and synonyms	67-63-0 68476-86-8 142-82-5 8012-95-1

Other components below reportable levels

1 - < 3

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

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.	
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Ge medical advice/attention. Wash contaminated clothing before reuse.	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.	
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.	

Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
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. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
	Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National

Conditions for safe storage, including any incompatibilities Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Keep out of the reach of

Fire Protection Association (NFPA) 70, "National Electrical Code".

Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

children. Store away from incompatible materials (see Section 10 of the SDS).

Components		Туре	Va	alue	Form
Heptane (CAS 142-82-5)		PEL		000 mg/m3 00 ppm	
Isopropyl Alcohol (CAS		PEL		30 mg/m3	
67-63-0)			40	00 ppm	
Mineral Oil, 35% (CAS 8012-95-1)		PEL		mg/m3	Mist.
Naphtha (petroleum), Hydrotreated Heavy (CAS 64742-48-9)		PEL	4(00 mg/m3	
• • • • • • • • • • • • • • • • • • • •			10	00 ppm	
US. ACGIH Threshold Lin	nit Values				
Components		Туре	Va	alue	Form
Heptane (CAS 142-82-5)		STEL	50	00 ppm	
1 ()		TWA		00 ppm	
Isopropyl Alcohol (CAS 67-63-0)		STEL	40	00 ppm	
,		TWA	20	00 ppm	
Mineral Oil, 35% (CAS 8012-95-1)		TWA	5	mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide	to Chemical I	Hazards			
Components		Туре	Va	alue	Form
Heptane (CAS 142-82-5)		Ceiling	18	300 mg/m3	
		-	44	10 ppm	
		TWA	35	50 mg/m3	
			85	5 ppm	
Isopropyl Alcohol (CAS 67-63-0)		STEL	12	225 mg/m3	
,			50	00 ppm	
		TWA	98	30 mg/m3	
			4(00 ppm	
Mineral Oil, 35% (CAS 8012-95-1)		STEL	10) mg/m3	Mist.
		TWA	5	mg/m3	Mist.
Naphtha (petroleum), Hydrotreated Heavy (CAS		TWA	40	00 mg/m3	
64742-48-9)			1(00 ppm	
ogical limit values					
ACGIH Biological Exposu	re Indices				
Components	Value	Determinant	Specimen	Sampling [•]	Time
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	
* - For sampling details, ple	ease see the so	ource document.			
ropriate engineering		eral ventilation (typically 10	air changes per	hour) should b	be used. Ventilation rates
trols	should be or other er	matched to conditions. If an agineering controls to main imits have not been establi	oplicable, use pr ain airborne leve	ocess enclosu els below reco	res, local exhaust ventilat mmended exposure limits

Individual protection measures, such as personal protective equipment

Eye/face protection	Not available.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece. Chemical respirator with organic vapor cartridge and full facepiece if threshold limits are exceeded.

Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene	When using do not smoke. Always observe good personal hygiene measures, such as washing

General hygiene considerations

after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

5.1 hysical and chemical p	si oper nes
Appearance	Opaque
Physical state	Liquid.
Form	Aerosol.
Color	Dark grey
Odor	Hydrocarbon like
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-131.08 °F (-90.6 °C) estimated
Initial boiling point and boiling range	180.5 °F (82.5 °C) estimated
Flash point	24.8 °F (-4.0 °C) Tag Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	2.5 % estimated
Flammability limit - upper (%)	12 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	60.78 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	750.2 °F (399 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	6.32 lbs/gal estimated
Explosive properties	Not explosive.
Flame extension	> 17 in
Flammability (flash back)	No
Flammability class	Flammable IB estimated
Heat of combustion (NFPA 30B)	20.27 kJ/g estimated
Oxidizing properties	Not oxidizing.
Percent volatile	44 % estimated
Specific gravity	0.76 estimated
voc	> 96 % estimated
10. Stability and reactivity	

10. Stability and reactivity

Reactivity	
Chemical stability	

The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.

Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Isocyanates. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

exposure		
May cause drowsiness and dizziness. Headache. Nausea, harmful.	vomiting. Prolonged inhalation may be	
Causes skin irritation.		
Causes serious eye irritation.		
Droplets of the product aspirated into the lungs through ingo chemical pneumonia.	estion or vomiting may cause a serious	
Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.		
ects		
May be fatal if swallowed and enters airways.		
Species Test	Results	
Rat 4.7 g	/kg	
be based on additional component data not shown.		
Causes skin irritation.		
Causes serious eye irritation.		
n		
Not a respiratory sensitizer.		
This product is not expected to cause skin sensitization.		
No data available to indicate product or any components pr mutagenic or genotoxic.	esent at greater than 0.1% are	
Not classifiable as to carcinogenicity to humans.		
Evaluation of Carcinogenicity		
ed Substances (29 CFR 1910.1001-1050)		
	•	
	opmental effects.	
May cause drowsiness and dizziness.		
Not classified.		
May be fatal if swallowed and enters airways.		
Prolonged inhalation may be harmful.		
1		
Toxic to aquatic life with long lasting effects.		
	May cause drowsiness and dizziness. Headache. Nausea, a harmful. Causes skin irritation. Causes serious eye irritation. Droplets of the product aspirated into the lungs through inge- chemical pneumonia. Aspiration may cause pulmonary edema and pneumonitis. I Headache. Nausea, vomiting. Severe eye irritation. May cause may be fatal if swallowed and enters airways. Species Test Rat 4.7 g. e based on additional component data not shown. Causes skin irritation. Causes serious eye irritation. Not a respiratory sensitizer. This product is not expected to cause skin sensitization. No data available to indicate product or any components primutagenic or genotoxic. Not classifiable as to carcinogenicity to humans. Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1050) fogram (NTP) Report on Carcinogens 112-95-1) Known To Be Human Carcin This product is not expected to cause reproductive or devel May cause drowsiness and dizziness. Not classified. May be fatal if swallowed and enters airways. Prolonged inhalation may be harmful.	

Components		Species	Test Results	
Heptane (CAS 142-82	-5)			
Aquatic				
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours	
Isopropyl Alcohol (CAS	S 67-63-0)			
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours	
Naphtha (petroleum), I	Hydrotreated Heav	y (CAS 64742-48-9)		
Aquatic				
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/l, 96 hours	
			8.8 mg/l, 96 hours	
* Estimates for produc	t may be based on	additional component data not shown.		
sistence and degrada	bility			
accumulative potentia	al			
Partition coefficient r	n-octanol / water (•		
Heptane		4.66 0.05		
Isopropyl Alcohol	No data a			
bility in soil				
er adverse effects	potential.	o 1	hich have a photochemical ozone creation	
Disposal conside	erations			
posal instructions	under pre sewers/w			

	container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste 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).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

DOT		
UN number	Not available.	
UN proper shipping name	Consumer commodity	
Transport hazard class(es)		
Class	ORM-D	
Subsidiary risk	-	
Label(s)	None	
Packing group	Not available.	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
Packaging exceptions	156, 306	
Packaging non bulk	156, 306	
Packaging bulk	None	
ΙΑΤΑ		
UN number	UN1950	
UN proper shipping name	Aerosol, Flammable	

Transport hazard class(es)	
• • • •	
Class	2.1
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipping name	Aerosols (Isopropyl Alcohol), MARINE POLLUTANT
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	
Marine pollutant	Yes
EmS	F-E, <u>S-E</u>
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	

IATA; IMDG



Marine pollutant



General information

IMDG Regulated 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 Substa	Ince List (40 CFR 302.4)	
Heptane (CAS 142-82-5)	Listed.	
Isopropyl Alcohol (CAS 6	7-63-0) Listed.	
SARA 304 Emergency relea	se notification	
Not regulated.		

OSHA Specifically Regulate Not regulated.	ed Substances (29 CF	R 1910.1001-1050)		
Superfund Amendments and Re	eauthorization Act of	1986 (SABA)		
Hazard categories	Immediate Hazard - Delayed Hazard - Ye Fire Hazard - Yes Pressure Hazard - N Reactivity Hazard - N	Yes es		
SARA 302 Extremely hazar Not listed.	dous substance			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
Isopropyl Alcohol		67-63-0	40 - < 50	
Other federal regulations				
Clean Air Act (CAA) Section	n 112 Hazardous Air P	Pollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Section	n 112(r) Accidental Re	lease Prevention (40 C	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
FEMA Priority Substan	ces Respiratory Healt	h and Safety in the Flav	vor Manufacturing Wo	orkplace
Isopropyl Alcohol (C	AS 67-63-0)	Low priority		
US state regulations				(Proposition 65): This material ns or reproductive toxins.
US. California. Candida subd. (a))	ate Chemicals List. Sa	fer Consumer Products	s Regulations (Cal. Co	ode Regs, tit. 22, 69502.3,
	AS 8012-95-1)), Hydrotreated Heavy	(CAS 64742-48-9) 'etroleum Gas; (CAS 684	476-86-8)	
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory	of Chemical Substances	s (AICS)	No
Canada	Domestic Substance	es List (DSL)		No
Canada	Non-Domestic Subs	tances List (NDSL)		No
China	Inventory of Existing	Chemical Substances in	n China (IECSC)	No
Europe	European Inventory Substances (EINEC	of Existing Commercial (S)	Chemical	No
Europe	European List of Not	tified Chemical Substanc	es (ELINCS)	No
Japan	Inventory of Existing	and New Chemical Sub	stances (ENCS)	No
Korea	Existing Chemicals I			No
New Zealand	New Zealand Invento	•		No
Philippines	Philippine Inventory (PICCS)	of Chemicals and Chem	ical Substances	No
United States & Puerto Rico	Toxic Substances Co	ontrol Act (TSCA) Invent	ory	Yes
*A "Yes" indicates that all compo A "No" indicates that one or more country(s).				he governing country(s) ry administered by the governing

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

Issue date	04-16-2015
Revision date	09-29-2017
Version #	07

HMIS® ratings	Health: 3* Flammability: 4
	Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 4 Instability: 0
NFPA ratings	
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	Product and Company Identification: Product Review Hazard(s) identification: Supplemental information Physical & Chemical Properties: Multiple Properties GHS: Classification