TRIPAK® Super Lubricants

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name: Tuff Nut Breaker
Recommended restrictions:
Recommended Use: Lubricant
Restrictions on use: Not known.
Manufacturer/Supplier: Tripak Super Lubricants
Address: 10812 99 St. Clairmont, AB T8X 5B4
Phone: 780-380-5178 **Office Email:** admin@tripaksuperlubricants.com
Emergency Telephone Number: Canutec 613-996-6666

SECTION 2: HAZARD IDENTIFCATION

Hazard Classification

Physical Hazards

Flammable aerosol	Category 1

Health Hazards

Carcinogenicity	Category 1A
Specific Target Organ Toxicity - Repeated Exposure	Category 1
Aspiration Hazard	Category 1

Environmental Hazards

Chronic hazards to the aquatic environment	Category 2
Acute hazards to the aquatic environment	Category 2

Label elements:
Hazard Symbols:

Signal Word: DANGER

Hazard Statement: Extremely flammable aerosol.
May cause cancer.
Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.
Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention. Collect spillage.
Storage: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification: None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Solvent naphtha (petroleum), medium aliph.		64742-88-7	30 - 60%
Paraffin oils		8012-95-1	15 - 40%
Alkanes, chloro		198840-65-2	7 - 13%
Carbon dioxide		124-38-9	0.5 - 1.5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: FIRST-AID MEASURES

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation: Move to fresh air.
Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.
Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.
Most important symptoms/effects, acute and delayed Symptoms: No data available.
Hazards: No data available.
Indication of immediate medical attention and special treatment needed Treatment: No data available.

SECTION 5: FIRE-FIGHTING MEASURES

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media:
Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding material
Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters
Special firefighting procedures: No data available.
Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep upwind.
Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
Notification Procedures: Prevent entry into waterways, sewer, basements, or confined areas. Stop the flow of material if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk.
Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.
Conditions for safe storage, including any incompatibilities: Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Solvent naphtha (petroleum), medium aliph. - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Solvent naphtha (petroleum), medium aliph. - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2014)
Solvent naphtha (petroleum), medium aliph. - Vapor. - as total hydrocarbons	8 HR ACL	200 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	250 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
Solvent naphtha (petroleum), medium aliph. - Vapor. - as total hydrocarbon vapor	TWA	200 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Solvent naphtha (petroleum), medium aliph.	TWA	400 ppm 1,590 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Solvent naphtha (petroleum), medium aliph. - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Solvent naphtha (petroleum), medium aliph.	8 HR ACL	400 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	500 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended(05 2009)
Solvent naphtha (petroleum), medium aliph.	TWA	400 ppm 1,590 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)

Solvent naphtha (petroleum), medium aliph. - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
Paraffin oils - Mist.	TWA	5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	STEL	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Paraffin oils - Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, asamended) (07 2007)
Paraffin oils	8 HR ACL	5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended(05 2009)
Paraffin oils - Inhalable fraction.	TWA	5 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
	TWA	0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	15 MIN ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
Paraffin oils - Mist.	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Paraffin oils - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Paraffin oils - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2010)
Carbon dioxide	STEL	30,000 ppm 54,000 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (10 2006)

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment
General information: Good general ventilation (typically 10 air changes per hour) should be used.
Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.
Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection
Hand Protection: No data available.
Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. When using do not smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

Physical state:	Liquid
Form:	Spray Aerosol
Color:	No data available.
Odor:	No data available.

Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling range: No data available.
Flash Point: Estimated 52 °C
Evaporation rate: No data available.
Flammability (solid, gas): No data available.
Upper/lower limit on flammability or explosive limits
Flammability limit - upper (%): No data available.
Flammability limit - lower (%): No data available.
Explosive limit - upper (%): No data available.
Explosive limit - lower (%): No data available.
Vapor pressure: No data available.
Vapor density: No data available.
Density: No data available.
Relative density: No data available.
Solubility(ies)
Solubility in water: No data available.
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No data available.
Conditions to avoid: Avoid heat or contamination.
Incompatible Materials: No data available.
Hazardous Decomposition Products: No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.
Ingestion: No data available.

Symptoms related to the physical, chemical, and toxicological characteristics
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.
Ingestion: No data available.

Information on toxicological effects
Acute toxicity (list all possible routes of exposure)
Oral
Product: Not classified for acute toxicity based on available data.

Specified substance(s):	
Solvent naphtha (petroleum), medium aliph.	LD 50 (Rat): > 5,000 mg/kg
Paraffin oils	LD 50: > 5,000 mg/kg
Paraffin waxes and Hydrocarbon waxes, chloro	LD 50 (Rat): > 11,700 mg/kg
Dermal	
Product:	ATEmix: 4,060.91 mg/kg
Inhalation	
Product:	Not classified for acute toxicity based on available data.
Specified substance(s):	
Solvent naphtha (petroleum),	LC 50: > 100 mg/l
medium aliph.	LC 50: > 100 mg/l
Paraffin oils	LC 50: > 100 mg/l LC 50: > 100 mg/l
Paraffin waxes and	LC 50: > 100 mg/l
Hydrocarbon waxes, chloro	LC 50: > 100 mg/l
Carbon dioxide	LC 50: > 20 mg/l LC 50: > 5 mg/l

Repeated dose toxicity

Product:	No data available.
Specified substance(s):	
Solvent naphtha (petroleum), medium aliph.	LOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation - vapor): 0.024 mg/l (Target Organ(s): Nervous System) Inhalation Experimental result, Key study LOAEL (Rabbit(Female, Male), Dermal): 200 mg/kg (Rabbit(Female, Male), Dermal): 200 mg/kg Dermal Experimental result, Supporting study
Paraffin waxes and Hydrocarbon waxes, chloro	NOAEL (Rat(Female, Male), Oral, 13 Weeks): 900 mg/kg Oral Experimental result, Key study

Skin Corrosion/Irritation

Product:	No data available.
Specified substance(s):	
Paraffin waxes and Hydrocarbon waxes, chloro	in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product:	No data available.
Specified substance(s):	
Solvent naphtha (petroleum), medium aliph.	Rabbit, 24 - 72 hrs: Not irritating
Paraffin waxes and Hydrocarbon waxes, chloro	Rabbit, 2 - 7 d: Not irritating

Respiratory or Skin Sensitization

Product:	No data available.
Specified substance(s):	
Solvent naphtha (petroleum), medium aliph.	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Paraffin oils	not photosensitising

Paraffin waxes and Hydrocarbon waxes, chloro	Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product:	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Paraffin oils	Overall evaluation: 3. Not classifiable as to carcinogenicity to humans. Overall evaluation: 1. Carcinogenic to humans.
Paraffin waxes and Hydrocarbon waxes, chloro	Overall evaluation: 2B. Possibly carcinogenic to humans.
1,4-Dioxane	Overall evaluation: 2B. Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

Paraffin oils	Hazard Designation: Known To Be Human Carcinogen. Year first listed as Known carcinogen: 1980.
Paraffin waxes and Hydrocarbon waxes, chloro	Hazard Designation: Reasonably Anticipated to be a Human Carcinogen.
1,4-Dioxane	Hazard Designation: Reasonably Anticipated to be a Human Carcinogen.

ACGIH Carcinogen List:

Paraffin oils	Group A2: Suspected human carcinogen.

Germ Cell Mutagenicity

In vitro	
Product:	No data available.
In vivo	
Product:	No data available.

Reproductive toxicity

Product:	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.

Aspiration Hazard

Product:	No data available.
Specified substance(s):	
Solvent naphtha (petroleum), medium aliph.	May be fatal if swallowed and enters airways.
Paraffin oils	May be fatal if swallowed and enters airways.
Other effects:	No data available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:	No data available.
Specified substance(s):	
Solvent naphtha (petroleum), medium aliph.	LL 50 (Oncorhynchus mykiss, 96 h): 2 - 5 mg/l Experimental result, Key study
Paraffin waxes and Hydrocarbon waxes, chloro	LC 50 (Oncorhynchus mykiss, 96 h): > 770 mg/l Experimental result, Key study

Aquatic Invertebrates

Product:	No data available.
Specified substance(s):	
Solvent naphtha (petroleum), medium aliph.	EC 50 (Daphnia magna, 48 h): 1.4 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Specified substance(s):	
Solvent naphtha (petroleum), medium aliph.	NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study

Aquatic Invertebrates

Product:	No data available.
Specified substance(s):	
Solvent naphtha (petroleum), medium aliph.	NOAEL (Daphnia magna): 0.48 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product:	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Specified substance(s):	
Solvent naphtha (petroleum), medium aliph.	61 % Detected in water. Experimental result, Supporting study
Paraffin waxes and Hydrocarbon waxes, chloro	17.2 % (28 d) Detected in water. Experimental result, Weight of Evidence study

BOD/COD Ratio

Product:	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Specified substance(s):	
Paraffin waxes and Hydrocarbon waxes, chloro	Bioconcentration Factor (BCF): < 1 Aquatic sediment Estimated by calculation, Weight of Evidence study

Partition Coefficient n-octanol / water (log Kow)

Product:	No data available.
Specified substance(s):	
Paraffin waxes and Hydrocarbon waxes, chloro	Log Kow: 8.69 - 12.83 20 °C No Experimental result, Weight of Evidence study

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Solvent naphtha (petroleum), medium aliph.	No data available.
Paraffin oils	No data available.
Paraffin waxes and Hydrocarbon waxes, chloro	No data available.
Carbon dioxide	No data available.

Other adverse effects: Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated Packaging: No data available.

SECTION 14: TRANSPORT INFORMATION

TDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2.1
Label(s):	–
EmS No.:	
Packing Group:	–
Environmental Hazards:	Yes
Marine Pollutant	No
Special precautions for user:	Not regulated.

IMDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2.1
Label(s):	–
EmS No.:	F-D, S-U
Packing Group:	–
Environmental Hazards:	Yes
Marine Pollutant	No
Special precautions for user:	Not regulated.

IATA

UN Number:	UN 1950
Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es):	
Class:	2.1
Label(s):	–
Packing Group:	–
Environmental Hazards:	Yes
Marine Pollutant	No
Special precautions for user:	Not regulated.
Cargo aircraft only:	Allowed.

SECTION 15: REGULATORY INFORMATION

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

Chemical Identity

Paraffin waxes and Hydrocarbon waxes, chloro

Carbon dioxide

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

National Pollutant Release Inventory (NPRI)

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5	Solvent naphtha (petroleum), medium aliph.

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI	Not Regulated

Greenhouse Gases

Chemical Identity

Carbon dioxide

Controlled Drugs and Substances Act

CA CDSI	Not Regulated
CA CDSII	Not Regulated
CA CDSIII	Not Regulated
CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated

Precursor Control Regulations

Not Regulated

International regulations Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Inventory Status:	
Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory

Canada NDSL Inventory:	Not in compliance with the inventory.
Ontario Inventory:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Japan (ENCS) List:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Mexico INSQ:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	Not in compliance with the inventory.

SECTION 16: OTHER INFORMATION

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Further Information: B
Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.