



Safety Data Sheet

Super Penetrating Oil

SECTION 1. IDENTIFICATION

Product Identifier	Super Penetrating Oil
Product number	TNDS8005
Product Family	Mixture
Recommended Use	Penetrant.
Restrictions on Use	None known.
Manufacturer	Shrader Canada Limited, 830 Progress Court, Oakville, ON, L6L 6K1, +1.905.847.0222, www.shradercanada.com
Emergency Phone No.	CANUTEC, +1.613.996.6666, Operation hours: 24/7

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable aerosol - Category 2; Gas under pressure - Compressed gas; Skin corrosion/irritation - Category 2; Serious eye damage/eye irritation - Category 2A; Aspiration hazard - Category 1

GHS Label Elements



Danger

Flammable aerosol.
May be fatal if swallowed and enters airways.
Contains gas under pressure; may explode if heated.
Pressurized container: may burst if heated.
Causes skin irritation.
Causes serious eye irritation.

Keep away from heat, sparks, open flames, and 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.
Wash hands and skin thoroughly after handling.
Wear protective gloves.
Wear eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
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.

Product Identifier:	Super Penetrating Oil
SDS No.:	TNDS8005
Date of Preparation:	September 30, 2015

Continue rinsing.
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Distillates (petroleum), hydrotreated middle	64742-46-7	60 - 100	
Liquified petroleum gas	68476-85-7	10 - 30	
2-Butoxyethanol	111-76-2	1 - 5	
Ethylbenzene	100-41-4	0.1 - 1.0	
Xylene (mixed isomers)	1330-20-7	0.5 - 1.5	

Notes

Concentrations are expressed in % volume/volume.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. If not breathing, give artificial respiration.
Get medical attention immediately.

Skin Contact

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs get medical advice/attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.
Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

Ingestion

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Drink two glasses of water. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

First-aid Comments

Get medical advice/attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

None known.

Immediate Medical Attention and Special Treatment

Special Instructions

Product Identifier: Super Penetrating Oil
SDS No.: TNSD8005
Date of Preparation: September 30, 2015

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Small fire: carbon dioxide or dry chemical. Use water to keep non-leaking, fire-exposed containers cool.

Unsuitable Extinguishing Media

Do not use a direct stream of water.

Specific Hazards Arising from the Chemical

Flammable aerosol. sprayed product will project a flame on contact with an ignition source.

Vapours are heavier than air.

May travel a considerable distance to a source of ignition and flash back to a leak or open container.

containers may explode if heated.

Carbon oxides. corrosive sulfur oxides; corrosive, oxidizing nitrogen oxides; corrosive phosphorous oxides. and other unidentified organic compounds.

Special Protective Equipment and Precautions for Fire-fighters

Use extreme caution, fight fire from a safe distance or a protected location.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Eliminate all ignition sources. Use grounded, explosion-proof equipment.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Keep containers tightly closed when not in use or empty. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Avoid repeated or prolonged skin contact with product or with contaminated equipment/surfaces. Wear personal protective equipment to avoid direct contact with this chemical. Containers of this material may contain hazardous residues when "emptied".

Do not use on hot vehicles.

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated. Store at temperatures not exceeding: 40°C.

Keep away from children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL [C]	TWA	Ceiling

Product Identifier: Super Penetrating Oil
SDS No.: TNSD8005
Date of Preparation: September 30, 2015

Ethylbenzene	20 ppm A3	Not established	100 ppm	Not established
2,2-iminodiethanol	1 mg/m ³ A3	Not established	15 mg/m ³	Not established
2-Butoxyethanol	20 ppm A3	Not established	240 mg/m ³	Not established
Xylene (mixed isomers)	100 ppm A4	150 ppm A4	435 mg/m ³	Not established
Glycerine	Not established	Not established	5 mg/m ³ (R)	Not established

(Glycerine)

OSHA = US Occupational Safety and Health Administration. R = Respirable fraction.

Appropriate Engineering Controls

Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted.

Individual Protection Measures

Eye/Face Protection

Safety glasses with side shields. Contact lenses should not be worn, they may contribute to the severity of the injury.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Emergency showers and eyewash facilities should be nearby.

The selection of personal protective equipment will vary depending on the conditions of use.

Neoprene rubber, nitrile rubber.

Respiratory Protection

Not normally required if product is used as directed. If the TLV is exceeded, a NIOSH -approved respirator is advised.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear colourless Aerosol.
Odour	Petroleum
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not available (melting)
Initial Boiling Point/Range	Not available
Flash Point	>= 100 °C
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1
Relative Density (water = 1)	0.825 at 15 °C
Solubility	Negligible in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	< 8 centistokes at 40°C (kinematic)
Other Information	
VOCs	24.5 (nominal)

Product Identifier: Super Penetrating Oil

SDS No.: TNDS8005

Date of Preparation: September 30, 2015

Flame projection < 100 cm
NFPA Classification Aerosol, Level 3

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Hazardous polymerization will not occur.

Chemical Stability

Stable at ambient temperatures and pressures.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Increased risk of fire and explosion on contact with: strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Carbon oxides, sulphur and nitrogen oxides, phosphorus oxides. And other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation.

Skin contact.

Eye contact.

Ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Ethylbenzene	~ 4000 ppm (rat) (4-hour exposure)	3500 mg/kg (rat)	15380 mg/kg (rabbit)
2,2-iminodiethanol	> 0.4 ppm (rat) (6-hour)	680 mg/kg (female rat)	8180 mg/kg (rabbit)
2-Butoxyethanol	450 ppm (female rat) (4-hour exposure)	530 mg/kg (female rat)	400-500 mg/kg (rabbit)
Xylene (mixed isomers)	6350 ppm (male rat) (4-hour exposure)	3523 mg/kg (rat)	> 1700 mg/kg (rabbit)
Glycerine	> 143 mg/m ³ (rat) (4-hour exposure)	27200 mg/kg (female rat)	23000 mg/kg (rabbit)

Skin Corrosion/Irritation

Moderate skin irritant.

Serious Eye Damage/Irritation

Moderate irritant.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

At high concentrations symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Absorption

No information was located.

Ingestion

Ingestion of small amounts during normal handling is not likely to cause injury. Symptoms may include nausea,

Product Identifier: Super Penetrating Oil
SDS No.: TNSD8005
Date of Preparation: September 30, 2015

vomiting, stomach cramps and diarrhea.

Aspiration Hazard

May cause lung damage if aspirated based on physical properties (e.g. kinematic viscosity) and chemical family (hydrocarbon). Death can result.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Conclusions cannot be drawn from the limited studies available.

Respiratory and/or Skin Sensitization

No information was located for respiratory sensitization.

No information was located for skin sensitization.

Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated middle	Not Listed	Not Listed	Not Listed	Not Listed
Liquified petroleum gas	Not Listed	Not Listed	Not Listed	Not Listed
Ethylbenzene	A3	Group 2B	Not Listed	Not Listed
2,2-iminodiethanol	A3	Group 2B	Not Listed	Not Listed
2-Butoxyethanol	A3	Group 3	Not Listed	Not Listed
Xylene (mixed isomers)	A4	Group 3	Not Listed	Not Listed
Glycerine	Not Listed	Not Listed	Not Listed	Not Listed

(Ethylbenzene) IARC: Group 2B – Possibly carcinogenic to humans.

(2,2-iminodiethanol) IARC: Group 2B – Possibly carcinogenic to humans.

Reproductive Toxicity

Development of Offspring

(Xylene (mixed isomers)) which is reported to be fetotoxic.

Interactive Effects

Xylene's potential for liver toxicity is enhanced by the presence of other solvents including ethanol.

No information was located for: Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by OSHA.

This section is not required by WHMIS.

Toxicity

No information was located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contents under pressure.

Product Identifier: Super Penetrating Oil

SDS No.: TNSD8005

Date of Preparation: September 30, 2015

Do not puncture, incinerate or expose to heat when empty.
Dispose of in accordance with municipal, provincial/state or federal regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1950	Aerosols	2.1	---
IATA (Air)	UN1950	Aerosols, flammable	2.1	---
IMDG (Marine)	UN1950	Aerosols	2.1	---

Environmental Hazards Not applicable

Special Precautions for User Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Emergency Response Guide No. 126 EmS F-D, S-U

Other Information ICAO/IATA PI Y203/203
Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are met.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

(Ethylbenzene) Part 1A.

(2-Butoxyethanol) Part 1A.

(Xylene (mixed isomers)) Part 1A.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

CERCLA: Not applicable.

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 313: Not applicable.

California Proposition 65. (Ethylbenzene)

Massachusetts Right To Know: Not applicable.

New Jersey Right To Know. (Liquified petroleum gas). (Xylene (mixed isomers)). (Ethylbenzene). (2-Butoxyethanol)

Pennsylvania Right To Know. (Ethylbenzene). (2-Butoxyethanol). (Xylene (mixed isomers)). (Liquified petroleum gas)

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 1** **Flammability - 4** **Instability - 3**

Product Identifier: Super Penetrating Oil

SDS No.: TNSD8005

Date of Preparation: September 30, 2015

Based on Liquefied petroleum gas

SDS Prepared By

Regulatory Compliance

Phone No.

905.847.0222

Date of Preparation

September 30, 2015

Key to Abbreviations

ACGIH® = American Conference of Governmental Hygienists
CANUTEC = Canadian Transport Emergency Centre
CAS = Chemical Abstract Service
CCOHS = Canadian Centre for Occupational Health & Safety
CNS = Central nervous system
GESTIS = GESTIS Substance Database
HSDB® = Hazardous Substances Data Bank
IARC = International Agency for Research on Cancer
ICAO = International Civil Aviation Organization
IMDG = International Maritime Dangerous Goods Code
LC = Lethal concentration
LC = Lethal dose
NFPA = National Fire Protection Association
NTP = National Toxicology Program
OSHA = US Occupational Safety and Health Administration
PPM = Parts per million
RTECS® = Registry of Toxic Effects of Chemical Substances
STEL = Short term exposure limit
TDG = Transportation of Dangerous Goods Regulations (Canada)
TWA = Time weighted average

References

Material Safety Data Sheet from manufacturer.
CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
ECHA - European Chemical Agency, Classification and Labelling Inventory
GESTIS Substance Database
OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

Disclaimer

The information contained herein is offered only as a guide to the use and handling of this specific material and has been prepared in good faith. It is not intended to be all-inclusive, and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied. Shrader Canada Limited will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein.

Product Identifier: Super Penetrating Oil

SDS No.: TNSD8005

Page 08 of 08

Date of Preparation: September 30, 2015