

PRODUCT: Tx BRAKE CLEANER



MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Tx BRAKE CLEANER
Other Names: None
Supplier's Product Code: TX-RC17087/20
Recommended Use: Cleaning Solvent

Supplier: Transdiesel Ltd
Address : 533 Halswell Junction Road, CHRISTCHURCH
Phone: (03) 349 8738 Fax: (03) 349 8384
0800 848 267 (Transdiesel)

Distributor: Owens Logistics
Address : 3 – 5 Kahu Street, Otahuhu, AUCKLAND
Phone: (09) 270 1310 Fax: (09) 270 1311

National Poisons Centre: 0800 764 766

SECTION 2: HAZARDS IDENTIFICATION

HSNO Classification	Pictogram	Hazard Statement
Dangerous Goods Class 3.1B		Highly flammable liquid and vapour
6.1E		May be fatal if swallowed and enters airways
6.4A		Causes serious eye irritation
6.9 (Narcotic)		May cause drowsiness or dizziness
6.9A		Causes damage to organs through prolonged or repeated exposure
6.3A		Causes skin irritation
6.8B		Suspected of damaging the unborn child
9.1B		Toxic to aquatic life with long lasting effects

Precautionary Statements:

General: If medical advice is needed, have product container or label at hand
Keep out of the reach of children
Read label before use

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- Preventative:** Obtain special instructions before use, do not handle until all safety precautions have been read and understood
Keep away from heat/sparks/open flames/hot surfaces. **NO SMOKING**
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion proof electrical/ventilation/lighting equipment
Use only non-sparking tools
Take precautionary measures against static electricity
Do not breathe mist/vapours/spray
Wash thoroughly after handling
Use only outdoors or in a well-ventilated area
Avoid release to the environment
Wear protective gloves/eye and face protection
Use personal protective equipment as required
- Response:** If swallowed: Immediately call the National Poisons Centre or seek medical attention.
If on skin: Wash with plenty of soap and water.
Take off contaminated clothing and wash before reuse. Rinse with water or wash with soap and water/shower.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Call the National Poisons Centre or get medical attention if you feel unwell.
DO NOT induce vomiting.
If skin irritation occurs: Get medical attention.
If eye irritation persists: Get medical attention.
In case of fire: Use foam/water spray/fog for extinction.
Collect spillage
- Storage:** Store in a well-ventilated place. Keep container tightly closed. Keep container cool.
Store locked up.
- Disposal:** Dispose of contents/containers in accordance with local regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients Names and Proportions

Chemical Entity	CAS Number	Proportion (%)
Solvent naphtha (petroleum), Light aliphatic	64742-89-8	85
With components:		
n-Hexane	110-54-3	< 30
Ethylbenzene	100-41-4	< 10
Propan-2-ol	67-63-0	<20
Note – product contains < 0.1% benzene		

SECTION 4: FIRST AID MEASURES

First aid treatment:

- Swallowed:** If swallowed, do **NOT** induce vomiting. Have conscious person drink several glasses of water or milk.
Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- Eye:** If in eyes, hold eyes open, flood with water for at least 15 minutes. If irritation persists seek immediate medical attention.
- Skin:** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and soap if available.
- Inhaled:** Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.

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Symptoms caused by exposure:

Swallowed: May include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever.
Eye: May include burning sensation, redness, swelling and/or blurred vision.
Skin: May include burning sensation and/or dried/cracked appearance.
Inhaled: Breathing of high vapour concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea: continued inhalation may result in unconsciousness and/or death.

Medical attention and special treatment: Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam, water spray or fog, dry chemical powder or carbon dioxide **DO NOT** use water jet.
Hazards from combustion products: Carbon dioxide and carbon monoxide. Will float and can be reignited on surface water. Vapour is heavier than air, can spread along ground and distant ignition is possible.
Precautions for Fire Fighters and Special Protective Equipment: Wear full protective clothing and self-contained breathing apparatus. Hazchem code – 3YE

SECTION 6: ACCIDENTAL RELEASE MEASURES

Observe all local and national regulations.

Personal precautions, protective equipment and emergency procedures: Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measures against static electricity. Ensure electrical continuity by bonding and earthing all equipment.

Environmental precautions: Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways using sand, earth or appropriate barriers. Attempt to disperse vapours or to direct its flow to a safe location, for example using fog sprays. Ventilate contaminated area thoroughly.

Methods and materials for containment and cleaning up:

For small spills (< 200 L), transfer by mechanical means to labeled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use appropriate absorbent material and dispose of safely.
For larger spills (> 200 L), transfer by means such as vacuum truck to salvage tank for recovery or disposal. Do not flush residues with water. Retain as Contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Highly flammable product. Avoid breathing vapours. Handle and open containers with care in a well-ventilated area. Ensure that workplace is ventilated such that Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing equipment.

Conditions for safe storage, including incompatibilities: Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidisers.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Control Measures: National Occupational Health & Safety Commission (NOHSC) Worksafe Australia has set an exposure standard of:
Propan-2-ol: 980 mg/m³ (400 ppm) TWA (8hr), 1225 mg/m³ (500 ppm) STEL
Solvent naphtha (petroleum), light aliphatic: 450 mg/m³ TWA (8hr)

Biological Monitoring: No biological limit allocated

Engineering Controls: Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

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Individual protection measures:

Eye and face protection:	Wear safety goggles.
Skin protection:	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
Respiratory protection:	If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS/NZS1716.
Thermal hazards:	Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless liquid
Odour	Paraffinic sweet
Odour threshold (ppm)	Data not available
pH	Data not available
Melting point / freezing point (°C)	Data not available
Initial boiling point and range (°C)	50-135
Flash point (°C)	-30 (Abel)
Evaporation rate (butyl acetate = 1)	Data not available
Flammability	Highly flammable
Upper / lower flammability or explosive limits (%)	1-7.5
Vapour pressure (kPa)	Typical 34.5
Vapour density (air = 1)	>1
Density (gm/mL @ 15°C)	0.67 – 0.755
Solubility (kg/m ³)	Not miscible with water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature (°C)	280 (ASTM E-659)
Decomposition temperature (°C)	Data not available
Kinematic viscosity (mm ² /s @ 20°C)	Data not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions of use.

Chemical stability: Stable under normal conditions of use.

Possibility of hazardous reactions: Stable under normal conditions of use.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids, gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:	Expected to be of low toxicity – LD50 Oral (rat) > 2000mg/kg
Skin corrosion/irritation:	Irritating to skin. Prolonged contact may cause defatting of skin which can lead to dermatitis.
Serious eye damage/irritation:	Expected to be non-irritating to eyes.
Respiratory or skin sensitisation:	Not expected to be a sensitizer.
Germ cell mutagenicity:	Not mutagenic.
Carcinogenicity:	Not expected to be carcinogenic.
Reproductive toxicity	Causes foetal toxicity in animals at doses which are maternally toxic. Affects reproductive system in animals at doses which produces other toxic effects (n-Hexane).
Specific Target Organ Toxicity (STOT) – single exposure	Not expected to be a respiratory irritant.
Specific Target Organ Toxicity (STOT) – repeated exposure	Central nervous system: repeated exposure affects the nervous system.
Aspiration hazard	Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Acute toxicity:

Fish	Expected to be toxic: 1 < LC/EC/IC50 <= 10 mg/L
Aquatic invertebrate	Expected to be toxic: 1 < LC/EC/IC50 <= 10 mg/L
Algae	Expected to be toxic: 1 < LC/EC/IC50 <= 10 mg/L
Microorganisms	Expected to be toxic: 1 < LC/EC/IC50 <= 10 mg/L

Chronic toxicity:

Fish	Data not available
Aquatic invertebrate	Data not available
Algae	Data not available
Microorganisms	Data not available

Persistence and degradability: Readily biodegradable. Oxidises by photo-chemical reactions in air.

Bioaccumulative potential: Has the potential to bioaccumulate.

Mobility in soil: Floats on water. Absorbs on soil.

Other adverse effects: Data not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Ensure waste disposal conforms to local disposal regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:	1993
Proper shipping name:	Flammable liquid, N.O.S. (Solvent Naphtha)
Dangerous Goods class:	3.1B
Dangerous Goods packaging group:	II
Hazchem code	3YE

SECTION 15: REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	5
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/NZ HB76):	14
NZ HSNO, Classification:	Solvents (Flammable) Group Standard Classification – 3.1B, 6.1D (inhalation), 6.1E (oral), 6.4A, 6.9A (inhalation), 6.9B (inhalation), 9.1B (fish, crustacean, algal).

SECTION 16: OTHER INFORMATION

Date of preparation/date of revision:	26/01/2016
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Further Information may be obtained by contacting Transdiesel Ltd on (03) 349 8738

The information sourced for the preparation of this document was correct and complete at the time or writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.