



# SAFETY DATA SHEET

## A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

ISSUED NOVEMBER 2018 (VALID 5 YEARS FROM THE DATE OF ISSUE)

### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

SUPPLIER	CHEMTOOLS PTY LTD	PHONE	1300 738 250 (Business Hours)
ADDRESS	Unit 2, 14 – 16 Lee Holm Road ST MARYS NSW 2760	FAX	02 9623 3670
		WEBSITE	www.chemtools.com.au

PRODUCT NAME	Heavy Duty Brake & Parts Cleaner		
PART NUMBER	CT-BC	PRODUCT TYPE	Industrial Solvent
PRODUCT USE	Cleaning and degreasing		
CREATION DATE	Jan 2016	LATEST REVISION DATE	Refer to date of issue above

### SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazardous Nature	Classified as HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).
SUSMP Classification	Schedule 5
ADG Classification	Classified as DANGEROUS GOODS by the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail and the New Zealand NZS5433: Transport of Dangerous Goods on Land
UN Number	1206 (HEPTANES)
Hazchem Code	3YE
Packing Group	II
GHS Signal Word	DANGER
GHS Hazard Pictograms	

### HAZARDOUS CLASSIFICATIONS

Flammable Liquids  
Acute Toxicity – Oral  
Skin Corrosion/Irritation  
Specific Target Organ Toxicity (Repeated Exposure)

Category 2  
Category 3  
Category 2  
Category 1

### HAZARD STATEMENTS

H225	Highly flammable liquid and vapour.
H305	May be harmful if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.

POISONS INFORMATION CENTER: 13 1126 FROM ANYWHERE IN AUSTRALIA (0800 764 766 FROM NEW ZEALAND)



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AUH066 Repeated exposure may cause skin dryness or cracking.

### PREVENTION PRECAUTIONARY STATEMENTS

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P260 Do not breathe dust, fumes, gas, mist, vapours, or spray.  
P262 Do not get in eyes, on skin, or on clothing.

### RESPONSE PRECAUTIONARY STATEMENTS

P101+P301+P312 IF SWALLOWED: Call a POISONS CENTER or doctor if you feel unwell and have product container or label at hand.  
P370+P378 In case of fire, use sand, earth, or chemical foam to extinguish.

### STORAGE PRECAUTIONARY STATEMENTS

P403 Store in a dry, well-ventilated place

### DISPOSAL PRECAUTIONARY STATEMENTS

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients:

Chemical Entity	CAS Number	Proportion
Isoheptanes	-	< 85%
Contains: Heptane and Isomers	Various	15 – 20 %
Isohexanes	73513-42-5	< 15%

### SECTION 4: FIRST AID MEASURES

#### General Advice

If poisoning occurs, contact a doctor or Poisons Information Centre (Australia 13 11 26, New Zealand 0800 764 766).

#### Inhalation

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek immediate medical attention.

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<b>Skin Contact</b>	Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.
<b>Eye Contact</b>	Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.
<b>Ingestion</b>	If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.
<b>First Aid Facilities Required</b>	Eye baths and safety showers
<b>Medical Attention</b>	Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

### SECTION 5: FIRE FIGHTING MEASURES

<b>Hazchem Code</b>	3YE
<b>Suitable Extinguishing Media</b>	Dry chemical or foam.
<b>Hazards from Combustion Products</b>	Carbon dioxide and carbon monoxide.
<b>Fire Fighting Advice</b>	Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing Fire Fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.
<b>Precautions for Fire Fighters and special protective equipment</b>	Full protective clothing and self-contained breathing apparatus.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all time. Clean up and report spills immediately.
<b>Methods and Materials for Containment</b>	<b>Major Land Spill:</b> Eliminate sources of ignition. Warn occupants of downwind areas of possible fire and explosion hazard. Prevent liquid from entering sewers, watercourses, or low-lying areas. Keep the public away from the area. Shut off the source of the spill if possible and safe to do so. Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Take measures to minimise the effect on the ground water. Contain the spilled liquid with sand or earth. Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. See 'First Aid Measure' and 'Stability and Reactivity' within this Safety Data Sheet.  <b>Major Water Spill:</b> Eliminate any sources of ignition. Warn occupants and shipping in downwind areas of possible fire and explosion hazard. Notify the port or

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relevant authority and keep the public away from the area. Shut off the source of the spill if possible and safe to do so. Confine the spill if possible. Remove the product from the surface by skimming or with suitable absorbent material. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. See 'First Aid Measure' and 'Stability and Reactivity' within this Safety Data Sheet.

### SECTION 7: HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	This product is flammable. Do not open near open flame, sources of ignition, or heat. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static charge. Use grounding leads to avoid discharge (electrical spark).
<b>Conditions for Safe Storage</b>	Store in a cool, dry place, away from direct sunlight. Do not pressurise, cut, heat, or weld containers – residual vapours are flammable. This product is flammable and will fuel a fire in progress.
<b>Incompatible Materials</b>	Natural Rubber, Butyl Rubber, EPDM, Polystyrene.

### DANGEROUS GOODS CLASSIFICATION

Dangerous Goods Class	Packing Group	UN Number	Hazchem Code	Poison Schedule (SUSMP)
3	II	1206 (HEPTANES)	3YE	S5

Classified as Dangerous Goods by the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail and the New Zealand NZS5433: Transport of Dangerous Goods on Land

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### NATIONAL EXPOSURE STANDARDS

The TWA (Time Weighted Average) concentration for this product is: 1640mg/m<sup>3</sup> (400 ppm), which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short-term exposure limit (STEL) is 2050 mg/m<sup>3</sup> (500 ppm), which is the maximum allowable exposure concentration at any time.

<b>Biological Limit Values</b>	Not available.
<b>Engineering Controls: Ventilation</b>	The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

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### PERSONA PROTECTION EQUIPMENT

#### Respiratory Protection

Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type 'A' filter material is considered suitable for this product.

#### Eye Protection

Always use safety goggles or a face shield when handling this product.

#### Skin/Body Protection

Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (eg, PVC) be worn when handling this product.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless liquid	Vapour Density @ 20°C	No data available
Boiling Point/Range (°C)	84	Auto Ignition Temperature (°C)	> 200°C
Flash Point (°C)	-15	Viscosity @ 20°C	Not applicable
Density @ 15°C	0.69 g/ml	Percent Volatiles	100%
Vapour Pressure (20°C)	No data available	Solubility with Water (% w/w)	<0.10
Explosive Limits (LEL-UEL)	1.0 – 7.0 %		

The values listed above are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

### SECTION 10: STABILITY AND REACTIVITY

#### Chemical Stability

Stable at room temperature and pressure.

#### Conditions to Avoid

Sources of heat and ignition. Open flames.

#### Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, and other organic complexes on incomplete burning or oxidation.

#### Hazardous Reactions

Oxidising agents, mineral acids, halogenated organic compounds. Combination with MEK will result in potentiated (greatly increased) health effects similar to those in ingestion and inhalation.

#### Hazardous Polymerisation

Will not occur.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### ACUTE EFFECTS

##### Inhalation

This product is irritating to the respiratory tract. Exposure to large concentrations over an extended period of time will result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.

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### Skin Contact

This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking.

### Ingestion

Produces hallucinations and narcotic effect. Ingestion of large amounts will result in drowsiness, fatigue, loss of appetite, paraesthesia in distal extremities (tingling in hands and feet). Possibility of muscle weakness, cold pulsation in extremities (hands and feet), blurred vision, headache, and nausea. Vomiting may cause this product to be aspirated to the lungs resulting in chemical pneumonitis or pulmonary oedema.

### Eye Contact

This product is irritating to eyes but will not permanently damage the eye tissue.

### CHRONIC AFFECTS

There is evidence of potentially irreversible damage to the peripheral nervous system, particularly arms and legs.

### OTHER HEALTH EFFECTS INFORMATION

This product contains isomers of heptane which have fewer health effects than products containing hexanes; although the same precautions to minimise inhalation and skin exposures should be observed.

### TOXICOLOGICAL INFORMATION

Oral LD<sub>50</sub>: heptane: LC<sub>50</sub>: 103 g/m<sup>3</sup> (4H, inhalation, rat)

Dermal TC<sub>Lo</sub>: heptane: 1000 ppm (inhalation, human)

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity – Aquatic

Fish (rainbow trout, goldfish, bluegill) (LC <sub>50</sub> (96hr):	No data available
Daphnia Magna EC <sub>50</sub> (24hr):	No data available
Blue-Green Algae (Toxicity threshold 7 – 8 days):	No data available
Green Algae (Toxicity threshold 7 – 8 days):	No data available

### Persistence and Degradability Bioaccumulation Potential Mobility

Readily Biodegradable Oxidises rapidly by photo-chemical reactions in the air.  
Does not bioaccumulate significantly.  
This product is highly volatile and will rapidly evaporate to the air if released into the water.

## SECTION 13: DISPOSAL CONSIDERATIONS

### General Information

Empty packaging should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry.

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### Special Precautions for Landfill or Incineration

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product must be disposed as chemical waste in accordance with the local authority.

## SECTION 14: TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the Australian Code for the Transport of dangerous Goods by Road & Rail and the New Zealand NZS5433: Transport of Dangerous of Goods on Land.

UN No. 1206  
Dangerous Goods Class 3  
Packing Group II  
Hazchem Code 3YE  
Proper Shipping Name HEPTANES  
Dangerous Goods Diamond



### Segregation of Dangerous Goods

This product is classed as Dangerous Goods Class 3, Packing Group II. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No. 1206  
Dangerous Goods Class 3  
Packing Group II  
Hazchem Code 3YE  
Proper Shipping Name HEPTANES  
Dangerous Goods Diamond



### Segregation of Dangerous Goods

This product is classed as Dangerous Goods Class 3, Packing Group II. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

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### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No. 1206  
Dangerous Goods Class 3  
Packing Group II  
Hazchem Code 3YE  
Proper Shipping Name HEPTANES  
Dangerous Goods Diamond



Segregation of Dangerous Goods

This product is classed as Dangerous Goods Class 3, Packing Group II. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

### SECTION 15: REGULATORY INFORMATION

Country/Region Australia  
Inventory AICS  
Status Listed  
Poisons Schedule 5

### SECTION 16: OTHER INFORMATION

#### KEY/LEGEND

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> Edition)
AICS	Australian Inventory of Chemical Substances
CAS Number	Chemical Abstracts Service (Registry Number)
CO2	Carbon Dioxide
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services, especially firefighters.
IARC	International Agency for Research on Cancer
KG	Kilograms
LC50	LC stands for Lethal Concentration
LD50	LD stands for Lethal Dose
LT	Litres
N.O.S.	Not Otherwise Specified
NTP	National Toxicology Program (USA)

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ppm	Parts per Million
STEL	Short Term Exposure Limit
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
SWA	Safe Work Australia, formerly ASCC and NOHSC
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN Number	United Nations Number

This SDS is prepared in accordance with the Safe Work Australia (SWA) document, entitled: **Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice (February 2016)**.

This Safety Data Sheet (SDS) summarises our best knowledge of the Health and Safety Hazard information pertaining to this product, including how to safely handle and use the product in the workplace.

Each user must review this SDS in the context of the how the product will be handled and used. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact **Chemtools Pty Ltd**, whereby we will attempt to obtain additional information from our suppliers.

Our responsibility for products sold is subject to our Terms and Conditions, a copy of which is sent to our customers and is also available upon request.

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SAFETY DATA SHEET BY **CHEMTOOLS PTY LTD** (ABN 12 114 400 083) • HEAD OFFICE/MANUFACTURING FACILITY: UNIT 2, 14 - 16 LEE HOLM ROAD ST MARYS NSW 2760

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