



# FUEL SYSTEM & INJECTOR CLEANER

## Material Safety Data Sheet

### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	Cartech Fuel System and Injector Cleaner
<b>Other Names</b>	CT100 250 ml      CT110 20 litres Liquid Hydrocarbons / SUSDP Schedule 5
<b>Recommended Use</b>	Cleaning fluid for petrol engine fuel systems
<b>Supplier Name</b>	Cartech Automotive Products Australia
<b>Address</b>	100 Hassall Street, Wetherill Park NSW 2164 Private Bag 35, Wetherill Park NSW 2164
<b>Telephone Number</b>	(02) 9828 0900
<b>Emergency Phone Number</b>	(02) 9828 0900      Monday-Friday      8.00am – 5.00pm 13 11 26 (24 hours Australia) Poisons Information Centre (PIC) 0800 764 766 (New Zealand) Poisons Information Centre (PIC)

### SECTION 2 HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Classified as hazardous according to the criteria of NOHSC. Not classified as Dangerous Goods according to the criteria of the ADG Code.
<b>Risk Phrase</b>	R 40 Possible risks of irreversible effects.
<b>Safety Phrase</b>	S 2 Keep out of reach of children. S 36/37 Wear suitable protective clothing and gloves. S 45 In case of accident or if you feel unwell, seek medical advice immediately.

<b>SECTION 3</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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**Pure substances**

Not applicable – Mixture

**Mixtures**

Chemical Identity	CAS Number	Proportion
Petroleum Distillate	68476-30-5	>60%
Other non-hazardous ingredients	-	<10%

<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
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**Ingestion**

If swallowed, do NOT induce vomiting. If vomiting occurs, keep head below hips to help keep liquid from entering the lungs. For advice, contact a Poisons Information Centre or a doctor.

**Skin**

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Wash affected area with soap and water.

**Eye**

If in eyes, flush with water for 15 minutes. If irritation persists, call for medical help.

**Inhalation**

Remove person to fresh air to avoid further inhalation. Apply artificial respiration if not breathing.

**First Aid Facilities**

Eye wash station.

**Advice to Doctor**

Aspiration into the lungs during ingestion or vomiting can result in severe pulmonary damage.

<b>SECTION 5</b>	<b>FIRE FIGHTING MEASURES</b>
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**Suitable Extinguishing Media**

Dry chemicals, carbon dioxide, water spray and foam are recommended.

**Hazards From Combustion Products**

Thermal decomposition may produce oxides of carbon, sulphur and nitrogen.

**Precautions For Fire Fighters**

Combustible liquid. Avoid heat, flame or other sources of ignition. Vapours may be ignited by heat or flame. Containers exposed to heat from fire should be cooled with water to prevent vapour pressure build up.

**Special Protective Equipment**

Fire fighters should wear self contained breathing apparatus when hydrocarbons are involved in fire.

**Hazchem Code**

None allocated.

<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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**Emergency Procedures**      Isolate area and restrict entry. Eliminate all sources of ignition.

**Methods and Materials for Containment and Clean Up Procedures**      Use absorbent, sand or clay. Shovel into containers. Remove to outside. Prevent liquid from entering sewers and water ways. Dispose of in accordance with Federal, State and Local regulations.

<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
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**Precautions for Safe Handling**      Keep away from heat and sparks. Do not breathe vapours. Keep containers closed. Keep out of reach of children.

**Conditions for Safe Storage**      Provide adequate ventilation. Do not store opened containers. Use entire contents.

<b>SECTION 8</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**National Exposure Standards**

Name	ES-TWA	ES-STEL	ES-Peak
None established for product.	-	-	-

Established for ingredients

Mineral Oil Mist	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	-
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**Alternative Standards**

Petroleum Oil Mist	OSHA (PEL)	5 mg/m <sup>3</sup>
	ACGIH (TLV-TWA)	5 mg/m <sup>3</sup>

Contains no other ingredients now known to be hazardous as defined by OSHA 29CFR 1910.1000(z) and 29CFR 1910.1200.

Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers.

**Biological Limit Values**

No biological limit allocated.

**Engineering Controls**

Provide adequate general or local ventilation to maintain concentrations below ES / TLV / PEL limits.

**Personal Protective Equipment**

<b>Respiratory Protection</b>	None required with normal application or use of product. If vapours exceed ES / TLV / PEL values, use a NIOSH approved respirator.
<b>Eye / Face Protection</b>	Use safety glasses.
<b>Skin Protection</b>	Chemical resistant gloves.
<b>Thermal Hazards</b>	None applicable.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Clear thin amber liquid
<b>Odour</b>	Petroleum distillate
<b>pH Value</b>	Not applicable
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Boiling Point/Range</b>	Not available
<b>Freezing Point</b>	Not available
<b>Melting Point</b>	Not applicable
<b>Solubility</b>	Negligible in water
<b>Density</b>	0.820 @ 15°C
<b>Flash Point</b>	64°C (PMCC)
<b>Flammable Limits</b>	Not available
<b>Ignition Temperature</b>	Not available

**SECTION 10 STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable
<b>Conditions to Avoid</b>	Heat, flame, or other sources of ignition.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may produce oxides of carbon, sulphur and nitrogen.
<b>Hazardous Reactions</b>	Polymerization will not occur.

**SECTION 11 TOXICOLOGICAL INFORMATION**

<b>Toxicology Information</b>	This material has not been identified as a carcinogen by NTP, IARC or OSHA. Chronic exposure may cause kidney and liver damage.
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**Acute Health Effects**

<b>Ingestion</b>	Ingestion of this material may cause vomiting. Aspiration into the lungs during ingestion or vomiting can result in severe pulmonary damage.
<b>Inhalation</b>	Inhalation of vapours or mist may cause mild irritation to the upper respiratory tract. High level exposure may result in central nervous system depression.
<b>Eye</b>	May cause irritation to eyes.
<b>Skin</b>	May cause irritation to skin. Prolonged or repeated contact can result in defatting and drying of skin.

**Chronic Health Effects**

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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<b>Ecotoxicity</b>	No ecotoxicological classifications.
<b>Persistence/ Degradability</b>	Not available.
<b>Mobility</b>	Not available.

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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<b>Disposal Methods</b>	Dispose of waste according to federal, EPA, state and local regulations. Assure conformity with all applicable regulations.
<b>Special Precautions for Landfill or Incineration</b>	Material suitable for disposal by incineration or landfill through a approved agent.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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<b>UN Number</b>	None allocated.
<b>Proper Shipping Name</b>	Not applicable.
<b>Class and Subsidiary Risk</b>	Not applicable.
<b>Packing Group</b>	Not applicable.
<b>Special Precautions for User</b>	None required.
<b>Hazchem Code</b>	None allocated.

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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<b>Poisons Schedule</b>	Liquid Hydrocarbons / Schedule 5 SUSDP No. 21 (2006).
<b>Hazard Category</b>	Harmful / NOHSC : 10005 (1999).

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
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**Acronyms**

ABN	Australian Business Number
ACGIH	American Conference of Governmental Industrial Hygienists
ADG	Australian Dangerous Goods
AICS	Australian Inventory of Chemical Substances
AS	Australian Standard
CAS	Chemical Abstracts Service (USA)
COC	Cleveland Open Cup
EPA	Environment Protection Agency (Australian States)
IARC	International Agency for Research on Cancer
IP	Institute of Petroleum (UK)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOHSC	National Occupational Health and Safety Commission (Australia)
NTP	National Toxicology Program (USA)
NZS	New Zealand Standard
OSHA	Occupational Safety and Health Administration (USA)
PEL	Permissible Exposure Level
PMCC	Pensky – Martens Closed Cup
SCBA	Self-Contained Breathing Apparatus
STEL	Short Term Exposure Limit
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations

**Abbreviations**

cP	centiPoise
cSt	centiStoke
g	gram
Hg	Mercury
kPa	kiloPascal
L	litre
m <sup>3</sup>	cubic metre
mg	milligram
mL	millilitre
mm	millimetre
°C	degrees of temperature in Celsius (Centigrade)
%	percent(age)

**Note**

This form has been prepared in accordance with the National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011 (2003)] issued by the National Occupation Health and Safety Commission April 2003.

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**END OF MATERIAL SAFETY DATA SHEET**