



A NEW FORCE IN CHEMICAL MANUFACTURING

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SAFETY DATA SHEET

ISSUED SEPTEMBER 2014 (VALID 5 YEARS FROM DATE OF ISSUE)

CT-EDG ENGINE DEGREASER

SECTION 1 - IDENTIFICATION OF THE MATERIAL

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PRODUCT NAME Engine Degreaser
PRODUCT TYPE Solvent for Industrial Use
PART NUMBER CT-EDG
AVAILABLE SIZES 5L (CT-EDG-5L)
20L (CT-EDG-20L)

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	%	HSIS TWA
Naphtha (petroleum), hydrated heavy	64742-48-9	30-80	790mg/m ³ (Stoddart solvent)
Alcohols, C12-14, ethoxylated	68439-46-3	<10	

SECTION 3 - HAZARDS IDENTIFICATION

Hazard Classification: HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Classified as hazardous according to the criteria of SafeWork Australia, and not classified as Dangerous Goods according to the Australian Dangerous Goods Code

Risk Phrases: Symbol(s) : Xn Harmful.

R-phrases(s) : R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

S-phrase(s) : S23 Do not breathe vapour.
S24 Avoid contact with skin.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Health Hazards : May cause moderate irritation to skin. Repeated exposure may cause skin dryness or cracking. Harmful: may cause lung damage if swallowed.

Signs and Symptoms : If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Skin

	irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.
SUSDP Schedule:	5
Relevant routes of exposure:	Skin, Inhalation, Eyes
Potential Health Effect	
Inhalation:	May cause respiratory tract irritation. High concentrations of vapours may cause headache, fatigue, drowsiness and dizziness.
Skin contact:	May cause allergic skin reaction. May cause skin irritation. Product has a defatting effect on skin. Prolonged contact may cause dryness of skin.
Eye contact:	Contact with eyes will cause irritation.

SECTION 4 - FIRST AID MEASURES

Inhalation:	Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin contact:	Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
Eye contact:	Check for and remove any contact lenses. Immediately flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
Ingestion:	Do not induce vomiting. Give large quantities of water Rinse mouth thoroughly. Loosen any tight clothing. Keep individual calm. Obtain medical attention. If there are signs of intoxication (drunkenness) then serious health effects may follow (depending on the amount swallowed or inhaled). Treat unconsciousness by placing the person in the coma position. Apply artificial respiration if breathing stops. Immediate medical attention should be sought and the affected person transferred and accompanied to the care of a doctor or hospital.

SECTION 5 - FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards :	Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Extinguishing Media :	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.
Unsuitable Extinguishing Media:	Do not use water in a jet.
Protective Equipment for Firefighters:	Wear full protective clothing and self-contained breathing apparatus.
Additional Advice :	Keep adjacent containers cool by spraying with water.
Hazchem Code :	Not applicable.
Extinguishing media:	Alcohol resistant foam, dry chemical or carbon dioxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

Protective measures :	Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all
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possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays.

Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

Clean Up Methods :

For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely.

Remove contaminated soil and dispose of safely.

Additional Advice :

See Chapter 13 for information on disposal. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

SECTION 7 - HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapour and mist. Wash thoroughly after handling.
Storage:	For safe storage, store at or below 38°C (100°F). Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	Refer to Section 10.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:	No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves. butyl rubber gloves.
Eye/face protection:	Safety goggles or safety glasses with side shields. Eye wash facilities should be provided in all areas where the product is handled.

See Section 2 for exposure limits.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless Liquid.
Odour:	Hydrocarbon
pH:	Not applicable.
Boiling point:	Typical 179-213.9°C
Pour point:	< -25°C
Flash point:	Typical 61-66°C (ASTM D-93 / PMCC)
Explosion/Flammability limits in air:	0.7-6%(V)
Auto-ignition temperature:	235 - 315°C (ASTM E-659)
Vapour pressure:	Typical 30-93 Pa at 0°C
Density:	Typical 0.80g/cm ³ at 15°C (ASTM D-4052)

Water solubility:	Insoluble.
Solubility in other solvents:	Hydrocarbon solvent(s) Soluble.
Vapour density (air=1):	Data not available.
Volatile organic carbon content:	85 % (EC/1999/13)
Evaporation rate (nBuAc=1):	0.04 (ASTM D 3539, nBuAc=1)

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.
Incompatibility:	Strong oxidizers. Strong acids. Chlorine, Nitrogen tetraoxide
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product toxicity data:	
Solvent naphtha, medium aliphatic	Oral: LD50 25 ml/Kg (rat). Skin: LD50 4ml/Kg (rabbit) Inhalation. Low toxicity: LC50 greater than near-saturated vapour concentration. Has shown some evidence of reproductive effects in laboratory animals IARC Category 3
Skin Irritation:	May cause moderate skin irritation (but insufficient to classify). Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
Eye Irritation:	Essentially non-irritating to eyes.
Respiratory Irritation:	Not expected to be a respiratory irritant.
Sensitisation:	Not expected to be a skin sensitiser.
Repeated Dose Toxicity:	Kidney: caused kidney effects in male rats which are not considered relevant to humans.
Mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	Repeated exposure causes skin tumour promotion in experimental animals.
Reproductive and Developmental Toxicity:	Not expected to be a developmental toxicant. Not expected to impair fertility.

SECTION 12 - ECOLOGICAL INFORMATION

Acute Toxicity	
Fish:	Low toxicity: LC/EC/IC50 > 1000 mg/l
Aquatic Invertebrates:	Low toxicity: LC/EC/IC50 > 1000 mg/l
Algae:Low toxicity:	LC/EC/IC50 > 1000 mg/l
Microorganisms:	Expected to be toxic: 1 < LC/EC/IC50 <= 10 mg/l
Mobility:	Adsorbs to soil and has low mobility. Floats on water.
Persistence/degradability:	Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.
Bioaccumulation:	Has the potential to bioaccumulate.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:	Recycle if possible. Dispose of according to Federal, State and Local governmental regulations.
Container disposal:	Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Recycle if possible.

SECTION 14 - TRANSPORT INFORMATION

ADG:	This material is not classified as dangerous according to the Australian Dangerous Goods Code.
IMDG:	This material is not classified as dangerous under IMDG regulations.
IATA (Country variations may apply):	This material is not classified as dangerous under IATA regulations

SECTION 15 - REGULATORY INFORMATION

Poisons Schedule (SUSDP): S5

SECTION 16 – OTHER INFORMATION

Abbreviations/Acronyms:	ADG – Australian Dangerous Goods. AICS – Australian Inventory of Chemical Substances. HSIS - Hazardous Substances Information System. IARC – International Agency for Research on Cancer. NIOSH – National Institute of Occupational Health and Safety. NOS – Not Otherwise Specified. PEL – Permissible Exposure Limit. STEL – Short Term Exposure Limit. SWA – SafeWork Australia, formally ASCC and NOHSC. SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons. TLV – Threshold Limit Value. TWA – Time Weighted Average.
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DISCLAIMER

The information contained within this MSDS applies only to the Chemtools product to which the sheet relates.

The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However, no warranty is made, either expressed or implied, regarding its accuracy or any liability arising out of the use of the information herein or the product supplied.

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classifications of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it was recommended. In such cases, a reassessment may be necessary and should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way.

They should check the adequacy of the information provided within this MSDS before passing it on to their customers/staff.