



COMBAT AUTO TOUGH

MATERIAL SAFETY DATA SHEET

PRODUCT & COMPANY

Product Name: Combat Auto Tough.

Uses: Commercial strength concentrated multipurpose spray & wipe detergent for automotive.

Company Details: Combat Cleaning Supplies Australia. ABN: 48640899618

1/16 Waratah Street, Kirrawee NSW 2232.

Manufactured by: Enviro Chemicals 740-744 Woodville Road Fairfield East NSW 2165 –
(Product: Citragold).

Emergency PH: Poisons Information Centre Telephone 13 11 26 or 1300 887 113 during work hours.

HOW TO USE?

Heavy duty Heavy carbon based soils, fatty, greasy deposits and soap scum – like kitchen rotisseries, stoves, ovens, deep fryers, BBQ hot plates, motor engines – Dilute 1 part KITCHEN TOUGH and 1 part water apply and leave for at least 5 minutes before agitation with a scouring pad. All food contact areas need to be rinsed off with water after cleaning. General Spray & Wipe Cleaning Bench tops, walls, glass, office equipment, kitchen accessories, plastics, fine furniture, mirrors, stainless steel, stereo & video equipment, elevators, lifts, shop fixtures, etc. – dilute into spray bottle 1 part KITCHEN TOUGH to 5-10 parts water. Floors General mopping on floors - dilute 50mls KITCHEN TOUGH to 10 litres of water in bucket. KITCHEN TOUGH will leave a sparkling clean, shining, brighter and whiter surface with pleasant residual fragrances. Carpet & Upholstery Prespray . Dilute 1 part KITCHEN TOUGH with 1 part water. Laundry Prespray . Dilute 1 part KITCHEN TOUGH with 1 part water. Washing machine light soil – ¼ cup, heavy soil – ½ cup

1. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

XI, IRRITATING. HAZARDOUS ACCORDING TO THE CRITERIA OF SWA. NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

RISK PHRASES: R41, R66, R36/38. RISK OF SERIOUS DAMAGE TO EYES. REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING. IRRITATING TO EYES AND SKIN.

SAFETY PHRASES: S23, S26, S28, S36, S38, S24/25, S37/39. DO NOT BREATHE VAPOURS OR MISTS. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND CONTACT A DOCTOR OR POISONS INFORMATION CENTRE. AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER. WEAR SUITABLE PROTECTIVE CLOTHING. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. AVOID CONTACT WITH SKIN AND EYES. WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.

SUSMP CLASSIFICATION: S5

ADG CLASSIFICATION: NONE ALLOCATED. NOT A DANGEROUS GOOD UNDER THE ADG CODE.

UN NUMBER: NONE ALLOCATED.

GHS SIGNAL WORD: WARNING



HAZARD STATEMENT: AUH066: REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

H315: CAUSES SKIN IRRITATION.

H319: CAUSES SERIOUS EYE IRRITATION.

H335: MAY CAUSE RESPIRATORY IRRITATION

PREVENTION: P102: KEEP OUT OF REACH OF CHILDREN.

P261: AVOID BREATHING FUMES, MISTS, VAPOURS OR SPRAY.

P264: WASH CONTACTED AREAS THOROUGHLY AFTER HANDLING.

P271: USE ONLY OUTDOORS OR IN A WELL VENTILATED AREA.

P280: WEAR PROTECTIVE GLOVES, PROTECTIVE CLOTHING AND EYE OR FACE PROTECTION

RESPONSE: P312: CALL A POISON CENTRE OR DOCTOR IF YOU FEEL UNWELL.

P362: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

P301+P330+P331:

IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.

P302+P352: IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.

P304+P340: IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING.

P305+P351+P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

P332+P313: IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE.

P337+P313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE.

P391: COLLECT SPILLAGE.

P370+P378: NOT COMBUSTIBLE. USE EXTINGUISHING MEDIA SUITED TO BURNING MATERIALS.

STORAGE: P403+P233: STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.

DISPOSAL: P501: DISPOSE OF SMALL QUANTITIES AND EMPTY CONTAINERS BY WRAPPING WITH PAPER AND PUTTING IN GARBAGE. FOR LARGER QUANTITIES, IF RECYCLING OR RECLAIMING IS NOT POSSIBLE, USE A COMMERCIAL WASTE DISPOSAL SERVICE.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	Percentage	CAS No.
Teric LA8	<8%	6834-92-0
Non-ionic surfactant	< 5%	Non Hazardous
Anionic Surfactant	< 5%	Non Hazardous
Ethylene glycol butyl ether	< 5%	111-76-2
Potassium Hydroxide	< 2%	1310-58-3
Perfume	< 0.2% Trace	Non Hazardous
Colour		Non Hazardous
Water		7732-18-5



3. FIRST AID MEASURES

SWALLOWED: Drink 1 or 2 glasses of water. Do Not induce vomiting. NEVER give anything by mouth to an unconscious person. If symptoms persist seek medical advice.

EYE EXPOSURE: Immediately flush eyes with plenty of water holding eyelids open. If eye irritation persists, seek medical advice.

SKIN EXPOSURE: Wash off with water. If skin irritation persists seek medical advice

INHALATION: Remove victim from exposure to fresh air. If feeling unwell seek medical advice

ADVICE TO DOCTOR: Treat symptomatically based on individual reactions of patient and judgement of doctor.

4. FIRE FIGHTING MEASURES

HAZCHEM CODE: None Allocated

Product is water based and is unlikely to play a contributing role in any fire. Special protective precautions and equipment for fire fighters. Fire fighters should use the appropriate equipment for the surrounding fire.

ACCIDENTAL RELEASE

PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. MATERIAL CAN CREATE SLIPPERY CONDITIONS.

ENVIRONMENTAL PRECAUTIONS: CAUTION: KEEP SPILLS AND CLEANING RUNOFF OUT OF DRAINS AND OPEN BODIES OF WATER.

METHODS & MATERIALS FOR CONTAINMENT & CLEAN UP: CONTAIN SPILLS IMMEDIATELY WITH INERT ABSORBENT MATERIALS (E.G. SAND, EARTH). TRANSFER LIQUIDS AND USED ABSORBENT MATERIAL TO SEPARATE SUITABLE CONTAINERS FOR RECOVERY OR DISPOSAL.

5. HANDLING & STORAGE

HANDLING: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapours, mist or fumes.

CONDITIONS FOR SAFE STORAGE: Store in a cool, dry, well-ventilated area. Keep container closed when not in use.

6. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT(S): THERE IS NO EXPOSURE DATA FOR THIS PRODUCT. THE EXPOSURE STANDARDS FOR 2-BUTOXYETHANOL CAS NO: 111-76-2; TWA:20PPM(96.9MG/M3) STEL: 50PPM (242MG/M3). ABSORPTION THROUGH SKIN MAY BE A SIGNIFICANT SOURCE OF EXPOSURE.

EXPOSURE CONTROLS: : IF WORKING IN CONFINED SPACE OR POOR VENTILATION USE APPROPRIATE EYE PROTECTION: WEAR SAFETY GLASS, AVOID CONTACT WITH EYES.



HAND PROTECTION: WEAR SUITABLE GLOVES.

ENGINEERING MEASURES: USE ONLY IN A WELL VENTILATED AREA. IF HANDLING LARGE AMOUNTS A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED.

7. PHYSICAL & CHEMICAL PROPERTIES

Physical state: Liquid

Colour: Orange

Odour: Citrus

pH: 10 -10.5

Boiling point/range: Approx: 100 – 171 deg. Celsius.

Melting point/range: <0oC Water

Flash point: Non combustible

Vapour pressure: Not established

Relative vapour density: Not established

Water solubility: Miscible with water at all proportions

Relative density: 1.05

NOTE: The physical data presented above are typical values and should not be construed as a specification.

8. STABILITY & REACTIVITY

HAZARDOUS REACTIONS: PRODUCT IS STABLE UNDER NORMAL CONDITIONS OF USE, STORAGE AND TEMPERATURE.

MATERIALS TO AVOID: STRONG ACIDS.

POLYMERIZATION: PRODUCT WILL NOT UNDERGO POLYMERIZATION

11. TOXICOLOGICAL INFORMATION

No data is available for this material.

The information shown is for 2-Butoxyethanol which is present at less than 10%. Toxicity Data Oral LD50 Rat: 470mg/Kg. Skin LD50 Rabbit: 220mg/Kg. Inhaled LC50 Rat: 2211mg/m³ (4hr). Skin Irritation Rabbit: Slight



irritation. Eye Irritation: Irritation.

Note: No studies are available on the effects of long term exposure in humans. Studies indicate that repeated exposure causes blood, liver and kidney disorders in animals. Deaths in acute studies were generally caused by narcosis or respiratory failure, with kidney failure seen as a secondary cause.

The main toxic effect observed in acute and repeated dose animal studies is haemolysis. The effect varies between species with rats and mice the most susceptible, rabbits less susceptible and guinea-pigs and humans least susceptible. Changes in kidney, liver, spleen and lungs were found in animals exposed by ingestion, inhalation and skin absorption. Deaths usually result from CNS depression, lung damage and kidney injury.

Health Effects – Acute

Swallowed

May be harmful if swallowed. Ingestion may cause irritation of mucous membranes in mouth, pharynx, oesophagus and gastro-intestinal tracts. Symptoms include nausea, headache, vomiting, ataxia (impaired locomotor co-ordination), acidosis, drowsiness, Agitation, insomnia, changes in the blood pressure, pulmonary oedema and damage to the liver and kidneys.

Eye: Causes eye irritation.

Skin: Irritating to skin. Danger of skin absorption.

Inhaled: Inhalation causes irritation to the mucus membranes, coughing and dyspnoea. Chronic exposure causes damage to blood cells and blood in urine.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability: No information available for this product.

Mobility: No information available on this product.

Additional information

Environmental fate (exposure): Avoid contaminating waterways, drains and sewers.

Bioaccumulative potential: No information available for this product.

13. DISPOSAL CONSIDERATIONS

Environmental precautions: CAUTION: Keep spills and cleaning run off out of municipal sewers and open bodies of water.

Disposal: Dispose of in accordance with local, state, and federal regulations.



14. TRANSPORT INFORMATION

Classification for ROAD and RAIL transport: Not regulated (Not dangerous for transport)

Classification for SEA transport (IMO-IMDG): Not regulated (Not dangerous for transport)

Classification for AIR transport (IATA/ICAO): Not regulated (Not dangerous for transport)

Hazchem Code: None allocated.

15. REGULATORY INFORMATION

Label Classification and labelling have been performed according to regulations.

Poison Schedule None allocated

EPG Not applicable

Australia. Industrial Chemical (Notification and Assessment) Act (AUSTR).

All ingredients in this preparation are listed in the Australian Inventory of Chemical Substances, AICS.

15. OTHER INFORMATION

Key to Abbreviations & Acronyms Used in SDS:

<	Less Than
>	Greater Than
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
LC50	LC stands for lethal Concentration. LC50 is the concentration of a material in air which causes death of 50% (one half) of a group of test animals. LD50 LD stands for "Lethal Dose". LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
NOHSC	National Occupational Health and Safety Commission.
OECD	Organisation for Economic Co-operation and Development.
PEL	Permissible Exposure Limit.
STEL	Short Term Exposure
Limit TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations (Number)



deg C (°C)	Degrees
Celsius g	Gram
g/cm³	Grams per cubic
centimetre g/l	Grams per litre
Immiscible	Liquids are insoluble in each other
kg	Kilogram
kg/m³	Kilograms per cubic
metre ltr	Litre
m³	Cubic
metre mg	Milligram
mg/24H	Milligrams per 24 hours
mg/kg	Milligrams per kilogram
mg/m³	Milligrams per cubic metre
miscible	Liquids form one homogeneous liquid
ppm	Parts per million
wt	Weight