A NEW FORCE IN CHEMICAL MANUFACTURING

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SAFETY DATA SHEET

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

R70 ELECTRICAL CONTACT CLEANER/ENHANCER AEROSOL

SECTION 1 - IDENTIFICATION OF THE MATERIAL

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PRODUCT NAME	Electrical Contact Cleaner/Enhancer in Aerosol
PRODUCT TYPE	Solvent/Anti-corrosion Treatment
PART NUMBER	CT-R70-300
AVAILABLE SIZES	300g

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	%	HSIS TWA	HSIS STEL
Naphtha, Hydrotreated	64742-48-9	>60		
Petroleum hydrocarbons	68334-30-5	<10		
Mineral Oil	8012-95-1	<10	5mg/m^3	
Hydrocarbon propellant	68476-85-7	10-30	1000ppm 1800mg/m^3	

SECTION 3 - HAZARDS IDENTIFICATION

Hazard Classification: **Hazardous Substance.** According to the criteria of SafeWork Australia. Classified as Dangerous Goods according to the ADG Code.

Risk Phrases:
R12 - Extremely flammable.
R65 - Harmful: May cause lung damage if swallowed.
R66 - Repeated exposure may cause skin dryness or cracking.

Safety Phrases:
S20 – When using do not eat or drink
S21 – When using do not smoke
S51 – Use only in well ventilated areas.
S24/25 – Avoid contact with skin and eyes.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

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.

Ingestion: Harmful. May cause lung damage if swallowed.

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. Rinse mouth thoroughly. Loosen any tight clothing. Keep individual calm.
Obtain medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Hazchem: 2Y

Flash point: -81ºC (ASTM D-93) (propellant)

Autoignition temperature: not available

Flammable/Explosive limits-lower %: 0.7% (bulk liquid)

Flammable/Explosive limits-upper %: 6.0% (bulk liquid)

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special fire fighting procedures: None

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of carbon. Irritating organic vapours.
Keep run-off water out of sewers and water sources.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Environmental precautions: Extinguish all ignition sources. Ventilate well. Use approved respirator if air contamination is above accepted level**.** Prevent product from entering drains or open waters.

Clean-up methods: Soak up with inert absorbent. Store in a partly filled, closed container until disposal.

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. Natural rubber gloves.

Eye/face protection: Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid in aerosol pack.
Colour:	Clear, pale straw coloured.
Odour:	Organic solvents.
pH:	Not available.
Boiling point/range:	180 - 215ºC (bulk)
Melting point/range:	Not available
Specific gravity:	0.75 – 0.85 at 15ºC
Vapour density:	<1
Evaporation rate:	Not available.
Solubility in water:	Insoluble.

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Oxides of carbon.
Incompatibility:	Strong oxidizers. Strong reducing agents.
Conditions to avoid:	See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

SECTION 11 - TOXICOLOGICAL INFORMATION

Product toxicity data:

Petroleum hydrocarbons	Oral: LD_{50} >2000 mg/Kg (rat). Skin: LD_{50} >2000mg/Kg (rat)

SECTION 12 - ECOLOGICAL INFORMATION

Ecological Information: When released into the soil, this material may biodegrade to a moderate extent. When released into the soil, this material may evaporate to a moderate extent. When released into water, this material may biodegrade to a moderate extent. This material may bioaccumulate to some extent. When released into the air, this material may be moderately degraded by reaction with photo chemically produced hydroxyl radicals.

Environmental Toxicity: No information found.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Dispose of according to Federal, State and Local governmental regulations.

SECTION 14 - TRANSPORT INFORMATION

ADG:

Proper shipping name:	Aerosols
UN No.:	1950
Class:	2.1
Hazchem code:	2[Y]
Packing group:	none

IMDG:

Proper shipping name:	Aerosols
Class:	1950
Packing group:	
Marine pollutant:	No

IATA (country variations may occur):

Proper shipping name:	Aerosols
Identification No.:	UN 1950
Class:	2.1
Packing group:	II

SECTION 15 - REGULATORY INFORMATION

Poisons Schedule (SUSDP):	Not Listed.
ADG Code:	This material is not classified as dangerous according to the ADG Code
NOHSC:	Hazardous.

SECTION 16 – OTHER INFORMATION

Abbreviations/Acronyms:

ACGIH – American Conference of Government Industrial Hygienists.
ADG – Australian Dangerous Goods.
HSIS - Hazardous Substances Information System.
IARC – International Agency for Research on Cancer.
NIOSH – National Institute of Occupational Health and Safety.
NOHSC – National Occupational Health and Safety Commission.
PEL – Permissible Exposure Limit.
STEL – Short Term Exposure Limit.
SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons.
TLV – Threshold Limit Value.
TWA – Time Weighted Average.

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.