Professional Aerosol Products

Revision: 4 Date: 14.07.2017

HD 150
HARDEX ELECTRIC PART CONTACT CLEANER 400ML

SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name:	Hardex Electric Part Contact Cleaner 400ml
Manufacturer's Product Code:	HD 150
Use(s):	Aerosol Spray
Importer:	Wang Import & Export
Address:	8/126 Fairbank Road, Clayton South, Vic 3169, Australia
Telephone Number:	03 8806 4356
Fax:	03 8555 0816
Email:	N/A
Website:	N/A

SECTION II: HAZARD IDENTIFICATION

Classification of the Hazardous Chemical

Flammable gas:	Category 1
Specific target organ toxicity-single exposure:	Category 3

Label Elements

Hazard Pictograms:

Signal Word: Danger

Hazard Statements:

H220 Extremely flammable gas.
H335 May cause respiratory irritation.

Precautionary Statements:

Prevention:

H210 Keep away from heat/sparks/open flames/hot surfaces-no smoking.
H261 Aviod breathing dust/fume/gas/mist/vapours/spray.
H271 Use only outdoors or in a well-ventilated area.

Response:

P304+P340 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 Eliminate all ignition sources if safe to do so.

Storage:

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Stored locked up.

Disposal:

P501 Dispose of contents/container to an approved waste disposal plant in accordance to local regulation.

Other Hazards which Do Not Result in Classification

None known.

SECTION III: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (%)
Perchloroethylene	127-18-4	85 – 95
Liquefied petroleum gas	68467-86-8	2 – 10

SECTION IV: FIRST AID MEASURES

If in Eyes: Flush eyes with large volumes of fresh water, lifting upper and lower lid occasionally. Receive medical support.

If in Skin: Water affected area thoroughly with soap and water. Contaminated clothing and launder should be removed before re-use.

If Swallowed: Drink 2 glasses of water immediately. Never give anything by mouth to an unconscious person. Call physician immediately. Do not induce vomiting.

If Breathed: Remove individual to fresh air if affected. If breathing is difficult, give oxygen. Give artificial respiration if the breathing has stopped. Keep person warm and quiet. Obtain medical support.

SECTION V: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media:	Carbon dioxide Dry chemical Foam Water fog
Unsuitable extinguishing media:	Water

Special Hazards Arising from the Substance or Mixture

In case of fire the following can develop:	Oxides of carbon Danger of bursting (explosion) when heated Danger of explosion by prolonged heating Explosive vapour/air mixture

Advice for Firefighters
Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed container to prevent build-up and possible auto ignition or explosion when expose to extreme heat.

SECTION VI: ACCIDENTAL RELEASE MEASURE

Personal Precautions, Protective Equipment and Emergency Procedures
Remove possible causes of ignition – do not smoke.
Ensure sufficient supply of air.
Avoid inhalation, and contact with eyes or skin.

Environmental Precautions
If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.

Methods and Material for Containment and Cleaning Up
Observe all personal protective equipment recommendations described in this MSDS. If spray or gas escapes, ensure ample fresh air is available. Soak up with absorbent material (e.g. universal binding agent, sand and diatomaceous earth). Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of releases.

SECTION VII: SAFE HANDLING AND STORAGE

Precautions for Safe Handling
Ensure good ventilation.
Do not smoke while spraying.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feeding stuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is

consumed.

Condition for Safe Storage, including any Incompatibilities
Do not store in direct sunlight or at temperature exceeding 113ºF.
Do not place near heat, spark, and open flame sources.
Store in a dry place.
Store cool.
Store in a well ventilated place.

SECTION VIII: EXPOSURE CONTROL AND PERSONAL PROTECTION

Control Parameters

Chemical Name	CAS No.	Value Type (Form of Exposure)	Control Parameters/ Permissible Concentration	Basis
Perchloroethylene	127-18-4	TWA	100 ppm	OSHA
		TLV	25 ppm	ACGIH
		STEL	100 ppm	
Liquefied petroleum gas	68467-86-8	TWA	10000 ppm	OSHA
		TLV	5000 ppm	ACGIH

Exposure Controls

Appropriate Engineering Controls
Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Wear the following personal protective equipment – safety goggles.

Skin Protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Inspect and replace worn or damaged gloves. Chemical resistant gloves are recommended – nitrile.

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Filter type – combined particulates and organic vapor type.

Hygiene Measures: Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Environmental Exposure Controls
No information available at present.

Note: These precautions are for room temperature handling.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	250°F
Specific Gravity:	Not determined
Evaporate Rate:	Slower than ether
Vapor Density:	Heavier than air
Volatile by Weight:	Not determined
Volatile by Volume:	Not determined
Solubility in Water:	Not determined
VOC's (lbs./gal):	Not determined
VOC's (grams/liter):	Not determined
Odor:	Mildly sweet

The above information is not intended for use in preparing product specifications.

SECTION X: STABILITY AND REACTIVITY

Reactivity:	Stable under normal storage conditions.
Chemical Stability:	Stable with proper storage and handling.
Possibility of Hazardous Reactions:	No dangerous reactions are known.
Conditions to Avoid:	Heating, open flames and ignition sources. Pressure increase will result in danger of bursting. Protect from sunlight and do not expose to temperatures exceeding 113°F. Do not pierce or burn, even after use.
Incompatible Materials:	Avoid contact with strong oxidizing agents, strong alkalis, and strong mineral acids.
Hazardous Decomposition Products:	Burning can produce carbon monoxide and/or carbon dioxide and trace phosgene gas.

SECTION XI: TOXICOLOGICAL INFORMATION

Inhalation: Inhalation of high concentration of vapor is hurtful and may result in heart irregularities, unconsciousness or death. Vapor is heavier than air and reduces oxygen available for breathing. Aspiration of material into the lung may result in chemical pneumonitis which can be fatal.

Eyes: overexposed with vapor may cause eye irritation with discomfort tearing or blurring if vision.

Skin: Prolonged exposure above the OSHA permissible exposure limits may cause kidney and liver damage. Repeated contact can result in moderate irritation, defatting and dermatitis.

SECTION XII: ECOLOGICAL INFORMATION

Environmental Fate and Distribution:
Solid material, insoluble in water. No adverse effects are predicted.

Environmental Effects:
No adverse effects on aquatic organisms are predicted.
Bioaccumulation: No bioaccumulation potential.

Fate and Effects in Waste Water Treatment Plants:
No adverse effects on bacteria are predicted.

SECTION XIII: DISPOSAL INFORMATION

Disposal Methods

Waste from Residues:	Disposal of waste to be in accordance with the Environmental Quality (Scheduled Wastes) Regulations and other guidelines issuance by DOE and/local authorities.
Contaminated Packaging:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION XIV: TRANSPORTATION INFORMATION

General Statements

UN number: 1950

Transport by Road/by Rail (ADR/RID)

UN proper shipping name:	UN 1950 Aerosols
Transport hazard class(es):	2.1
Packing group:	II
Classification code:	5F
LQ (ADR 2015):	1 L
Environmental hazards:	Not applicable
Tunnel restriction code:	D

Transport by Sea (IMDG-code)

UN proper shipping name:	UN 1950 Aerosols
Transport hazard class(es):	2.1
Packing group:	II
EmS:	F-D, S-U
Marine pollutant:	Not applicable
Environmental hazards:	Not applicable

Transport by Air (IATA)

UN proper shipping name:	UN 1950 Aerosols
Transport hazard class(es):	2.1
Packing group:	II
Environmental hazards:	Not applicable

Special Precautions for User
Persons employed in transporting dangerous goods must be trained.
All persons involved in transporting must observe safety regulations.
Precautions must be taken to prevent damage.

Transport in Bulk According to Annex II of MARPOL and the IBC Code
Freighted as packaged goods rather than in bulk, therefore not applicable.
Minimum amount regulations have not been taken into account.
Danger code and packing code on request.
Comply with special provisions.

SECTION XV: REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture
Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemical) Regulations.

Chemical Safety Assessment
A chemical safety assessment is not provided for mixtures.

SECTION XVI: OTHER INFORMATIONS

Full Text of Other Abbreviations

ACGIH:	USA. ACGIH Threshold Limit Values (TLV)
MY PEL:	Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemical Hazardous to Health) Regulations 2000
DCC OEL/TWA:	Time-weighted average
MY PEL/TWA:	Eight-hour time-weighted average airborne concentration
OSHA:	Occupational Safety and Health Administration
STEL:	Short Time Exposure Limit

WARRANTY

The information and data contained herein is believed to be accurate and reliable: however, it is the user's responsibility to determined suitability of use. Since the supplier cannot know all the uses or the conditions of use to which this product may be put, no warranties concerning fitness or suitability for a particular use or purpose are made. The supplier warrants only that its products will meet its specifications. There is not a warranty of merchantability or fitness for use, nor any other express or implied warranty. The user's exclusive remedy and supplier's sole liability is limited to refund of the purchase price or replacement of any product shown to be otherwise than was warranted.