

# Material Safety Data Sheet



**Product Name**      **CHEMCONTACTCLEAN**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name**      **HEINEMANN ELECTRIC PTY LTD**  
**Address**              821 Springvale Road, Mulgrave, Victoria, AUSTRALIA, 3170  
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**Web Site**              http://www.heinemannelectric.com.au  
**Synonym(s)**          SC-CC225 - PRODUCT CODE  
**Use(s)**                  CLEANING AGENT • LUBRICANT • LUBRICANT - AEROSOL  
**MSDS Date**          08 Dec 2006

## 2. HAZARDS IDENTIFICATION

**CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC CRITERIA**

### RISK PHRASES

R38                      Irritating to skin.  
R40                      Limited evidence of a carcinogenic effect.  
R45                      May cause cancer.  
R48/20                 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R62                      Possible risk of impaired fertility.

### SAFETY PHRASES

S16                      Keep away from sources of ignition - No smoking.  
S29                      Do not empty into drains.  
S36/37                 Wear suitable protective clothing and gloves.  
S45                      In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).  
S53                      Avoid exposure - obtain special instructions before use.  
S61                      Avoid release to the environment. Refer to special instructions / safety data sheets.  
S62                      If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

**CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

<b>UN No.</b>	1950	<b>DG Class</b>	2.1	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	None Allocated	<b>Hazchem Code</b>	2Y	<b>EPG</b>	2D1

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
N-HEXANE	C6-H14	110-54-3	30-60%
LIQUEFIED PETROLEUM GAS (LPG)	C3H8/C3H6/C4H10	68476-85-7	10-30%

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## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
TETRACHLOROETHYLENE (PERCHLOROETHYLENE)	C2-Cl4	127-18-4	10-30%
MINERAL OIL	Not Available	Not Available	<10%

## 4. FIRST AID MEASURES

<b>Eye</b>	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If swallowed or inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Do not give direct mouth-to-mouth resuscitation. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
<b>Advice to Doctor</b>	Treat symptomatically
<b>First Aid Facilities</b>	Eye wash facilities and safety shower are recommended.

## 5. FIRE FIGHTING MEASURES

<b>Flammability</b>	Highly flammable. May evolve toxic gases (chlorides, phosgene) when heated to decomposition.
<b>Fire and Explosion</b>	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>Extinguishing</b>	Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways.
<b>Hazchem Code</b>	2Y

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spillage</b>	If cans are punctured (bulk), use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Collect and allow to discharge outdoors. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.
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## 7. STORAGE AND HANDLING

<b>Storage</b>	Store in cool, dry, well ventilated area, removed from direct sunlight, heat & ignition sources, oxidising agents, acids, alkalis & foodstuffs. Ensure aerosol containers are adequately labelled, protected from physical damage and sealed when not in use. Inspect regularly for damaged/ leaking containers. Large storage areas should have appropriate fire protection and ventilation systems.
<b>Handling</b>	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Stds	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	LIQUEFIED PETROLEUM GAS (LPG)	ASCC (AUS)	1000	1800	1000	1800
	Oil mist, refined mineral	ASCC (AUS)	--	5	--	--
	n-Hexane	ASCC (AUS)	20	72	--	--
	Perchloroethylene	ASCC (AUS)	50	340	150	1020

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## Biological Limits

Ingredient	Reference	Determinant	Sampling Time	BEI
N-HEXANE	ACGIH BEI	2,5-Hexanedione in urine (without hydrolysis)	End of shift at end of workweek	0.4 mg/L
TETRACHLOROETHYLENE (PERCHLOROETHYLENE)	ACGIH BEI	Tetrachloroethylene in end-exhaled air	Prior to last shift of workweek	5 ppm
	ACGIH BEI	Tetrachloroethylene in blood	Prior to last shift of workweek	0.5 mg/L
	ACGIH BEI	Trichloroacetic acid in urine	End of shift at end of workweek	3.5 mg/L

## Engineering Controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

## PPE

Wear splash-proof goggles and PVA or viton (R) gloves. When using large quantities or where heavy contamination is likely, wear: coveralls. Where an inhalation risk exists, wear: a Type A (Organic vapour) respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	LIQUID (AEROSOL)	<b>Solubility (Water)</b>	INSOLUBLE
<b>Odour</b>	SLIGHT ODOUR	<b>Specific Gravity</b>	NOT AVAILABLE
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	HIGHLY FLAMMABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	-81°C
<b>Boiling Point</b>	NOT AVAILABLE	<b>Upper Explosion Limit</b>	NOT AVAILABLE
<b>Melting Point</b>	NOT AVAILABLE	<b>Lower Explosion Limit</b>	NOT RELEVANT
<b>Evaporation Rate</b>	NOT AVAILABLE		

## 10. STABILITY AND REACTIVITY

**Material to Avoid** Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), alkalis (eg. hydroxides), heat and ignition sources.

**Hazardous Decomposition Products** May evolve toxic gases (chlorides, phosgene) when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

**Health Hazard Summary** Toxic - irritant. Use safe work practices to avoid eye or skin contact and vapour/mist inhalation. Over exposure may result in liver, kidney and CNS damage. Tetrachloroethylene is classified as probably carcinogenic to humans (IARC Group 2A).

**Eye** Irritant. Contact may result in irritation, lacrimation, pain and redness.

**Inhalation** Toxic - irritant. Over exposure may result in irritation of the nose and throat, coughing, nausea, dizziness and headache. High level exposure may result in breathing difficulties, anaesthesia, cardiac arrhythmias, pulmonary oedema, unconsciousness and possible respiratory failure. Chronic exposure may result in kidney, liver and CNS damage.

**Skin** Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis. May be absorbed through skin

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with harmful effects.

**Ingestion** Toxic. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, fatigue, drowsiness and unconsciousness. Aspiration may result in chemical pneumonitis and pulmonary oedema. Ingestion is considered unlikely due to product form.

**Toxicity Data** TETRACHLOROETHYLENE (PERCHLOROETHYLENE) (127-18-4)  
LCLo (Inhalation): 4000 ppm/4 hour (rat)  
LD50 (Ingestion): 2629 mg/kg (rat)  
LD50 (Intraperitoneal): 2100 mg/kg (dog)  
LD50 (Skin): 65 gm/kg (mouse)  
LDLo (Ingestion): 4000 mg/kg (dog)  
LDLo (Subcutaneous): 2200 mg/kg (rabbit)  
TDLo (Ingestion): 195 g/kg/50 Weeks intermittent (mouse - cancer)  
MINERAL OIL (Not Available)  
Carcinogenicity: Confirmed human carcinogen (IARC Group 1)

## 12. ECOLOGICAL INFORMATION

**Environment** Tetrachlorethylene is degraded fairly rapidly in the lower atmosphere (Half life ~ 5 months). It evaporates rapidly from open water systems but persists in ground water. It is toxic to aquatic organisms, however there is no potential for bioaccumulation.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** For small amounts absorb contents with sand or similar and dispose of to an approved landfill site. Do not puncture or incinerate aerosol cans. Contact the manufacturer for additional information.

**Legislation** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION



### CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

<b>Shipping Name</b>	AEROSOLS				
<b>UN No.</b>	1950	<b>DG Class</b>	2.1	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	None Allocated	<b>Hazchem Code</b>	2Y	<b>EPG</b>	2D1

## 15. REGULATORY INFORMATION

**Poison Schedule** Classified as a Schedule 6 (S6) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

**Additional Information** AEROSOL CANS may explode at temperatures approaching 50°C.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**IARC - GROUP 2A - PROBABLE HUMAN CARCINOGEN.** This product contains an ingredient which has been classified by the International Agency for Research into Cancer (IARC) as a probable human carcinogen and whose use should be strictly monitored and controlled.

**ABBREVIATIONS:**  
ADB - Air-Dry Basis.

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BEI - Biological Exposure Indice(s)  
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.  
CNS - Central Nervous System.  
EINECS - European INventory of Existing Commercial chemical Substances.  
IARC - International Agency for Research on Cancer.  
M - moles per litre, a unit of concentration.  
mg/m3 - Milligrams per cubic metre.  
NOS - Not Otherwise Specified.  
NTP - National Toxicology Program.  
OSHA - Occupational Safety and Health Administration.  
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).  
ppm - Parts Per Million.  
RTECS - Registry of Toxic Effects of Chemical Substances.  
TWA/ES - Time Weighted Average or Exposure Standard.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**COLOUR RATING SYSTEM:** RMT has assigned all Chem Alert reports a colour rating of Green, Amber or Red for the sole purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline, a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

While all due care has been taken by RMT in the preparation of the Colour Rating System, it is intended as a guide only and RMT does not provide any warranty in relation to the accuracy of the Colour Rating System. As far as is lawfully possible, RMT accepts no liability or responsibility whatsoever for the actions or omissions of any person in reliance on the Colour Rating System.

**Report Status**

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

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**End of Report**

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