



SAFETY DATA SHEET

Section 1: Identification of the Substance/Mixture and of the Supplier

Product Name:	Trichloroethylene
Proper Shipping Name	Trichloroethylene
Recommended use:	Industrial Chemical/Solvent
Company Details	Marketing Chemicals Ltd
Address:	2 Rymer Place, Mangere Bridge, Auckland. New Zealand
Telephone:	+64 9 634 3862 [8.00 am to 4.30pm – Monday to Friday]
Fax:	+64 9 634 3864
Emergency Telephone:	+64 274 736008(24 hours) National Poison Centre(24 hours): 0800 POISON [764 766]
Date of preparation	8 November 2014

Section 2: Hazard Identification



DANGER:

- Harmful if inhaled
- Causes skin irritation.
- Causes serious eye irritation.
- Suspected of causing genetic defects
- May cause cancer
- May cause damage to organs through prolonged or repeated exposure
- Toxic to aquatic life.

HSNO Approval Number: Group Standard HSR001555

Group Standard: Trichloroethylene

HSNO Classes: 6.1D(Inhalation), 6.3A, 6.4A, 6.6B, 6.7A, 6.9B, 9.1D

Prevention Statements:

- Keep out of reach of children.
- Read label before use.
- Use only outdoors or in a well-ventilated area.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Do not breathe fume/gas/vapours/spray.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Avoid release to the environment.

Response Statements

- If medical advice is needed, have product container or label at hand.
- Immediately call a POISON CENTER or doctor/physician.
- IF ON SKIN: Wash with plenty of soap and water.

- If skin irritation occurs: Get medical advice/ attention.
- Take off contaminated clothing and wash before re-use.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- IF exposed or concerned: Get medical advice/ attention.
- Get medical advice/attention if you feel unwell.
- Avoid release to the environment.

Storage Statements

- Store locked up.

Section 3: Composition/Information on Ingredients

Name	% by Wt.	CAS Number
Trichloroethylene	100	79-01-6

Section 4: First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for 15 minutes. If irritation persists, seek medical attention.
Skin:	Wash exposed area with mild soap and water. Get medical attention if irritation develops or persists.
Ingestion:	Do not Induce Vomiting. Get immediate medical attention.
Inhalation:	Remove victim from area of exposure. If unconscious, give oxygen. Give artificial respiration if not breathing. Get immediate medical attention.

NOTES TO PHYSICIAN: Exposure to high concentrations of this material (e.g., in enclosed spaces or with deliberate abuse) may be associated with cardiac arrhythmias. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

For Further Information Telephone (24 Hours)The National Poison Centre: 0800 Poison [764 766]

Section 5: Fire Fighting Measures

Flash Point:	Not available
Auto ignition Temperature:	410°C
Flammable Limits in Air % by Volume:	Not available
Extinguishing Media:	Dry chemical, foam, or carbon dioxide.
Fire Fighting Instructions:	Proper respiratory equipment to protect against the hazardous effects of combustion products is recommended. Water in a straight hose stream may cause fire to spread and should be used as a cooling medium only.
Unusual Fire and Explosion Hazards:	Vapour accumulations may flash and/or explode if ignited. Keep ignition sources, open flames, ect, away from those fumes.

Section 6: Accidental Release Measures

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material, or vermiculite.

Section 7: Handling And Storage

Handling	Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel or container to another. This material can accumulate static charge by flow or agitation. Vapours can be ignited by static discharge. Use explosion proof equipment as directed by local fire codes.
Storage:	Store unopened containers under cool, dry and ventilated conditions. Keep away from heat, sparks and flame.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:	General (mechanical) room ventilation is considered satisfactory in enclosed spaces. Where explosive mixtures may be present, electrical systems safe for such locations must be used.
Eye / Face Protection:	Wear safety glasses with side shields or goggles when handling this material.
Body Protection:	PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.
Respiratory Protection:	Use NIOSH/MSHA approved respirators.
Exposure Limits:	TWA: 10ppm (54 mg/m ³); STEL: 40ppm(216 mg/m ³)

Section 9: Physical And Chemical Properties

Appearance	Clear colourless liquid
Odour	Chloroform – like
Specific Gravity	1.465
Vapour Pressure	7.87kPa @ 20° C
Vapour Density	4.54 (air =1)
Solubility in water	1.07 g/L @ 25°C
Auto ignition temperature	410°C
Flammability limit%	12.5 – 90
Flash Point	N/A

Section 10: Stability And Reactivity

Stability of the Substance:	Stable under normal ambient conditions.
Conditions to avoid:	Avoid contact with open flames, electric arc, and other hot surfaces, which can cause thermal decomposition.
Materials to avoid:	Avoid alkalis, acids, oxidizing agents and reactive metals such as aluminium and its alloys, zinc, magnesium, potassium and sodium.

Hazardous Decomposition Products: Hydrogen chloride, phosgene

Hazardous Reactions: Heating can cause expansion or decomposition of the material, which can lead to containers exploding.

Section 11: Toxicological Information

Eyes: SPECIES: Rabbit
RESULT: Moderate irritant

Skin: SPECIES: Rabbit
RESULT: Moderate to severe irritant

Ingestion: SPECIES: Rat (f)
ENDPOINT: LD50
VALUE: 1410 mg/kg

Inhalation: EndPoint: LOAEL
Primary Organ: LOAEL 50 ppm (inhalation) rats

Trichloroethylene is probably carcinogenic to humans.

Section 12: Ecological Information

ACUTE
SPECIES: Imanda limanda
TYPE OF EXPOSURE:
DURATION:
ENDPOINT: LC50
VALUE: 16mg/l

CHRONIC
SPECIES: Jordanella floridae
TYPE OF EXPOSURE:
DURATION:
ENDPOINT: NOEC
VALUE: 5.76mg/l

Section 13: Disposal Considerations

Recycle where possible. Otherwise, ensure that:

- Licenced contractors dispose of the product and its container.
- Disposal occurs at a licenced facility.

Section 14: Transport Information



UN No: 1710

Proper Shipping Name: Trichloroethylene
Dangerous Goods Class: 6.1
Subsidiary risk
Packing Group: III
Hazchem: 2Z

Section 15: Regulatory Information

HSNO Approval No: HSR001555
Group Standard: Trichloroethylene
HSNO Classes: 6.1D(Inhalation), 6.3A, 6.4A, 6.6B, 6.7A, 6.9B, 9.1D

Section 16: Other Information

New Zealand National Poison Information Centre (24 hours): 0800 POISON [764 766]
New Zealand Emergency Services: 111

For General Information: John Crombie, Manager, Marketing Chemicals Ltd,
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Marketing Chemicals Ltd has taken care in compiling this information. No liability is accepted directly or indirectly from its application as conditions of use are outside the Company's control. End users are obliged to conform to relevant Local Government regulations.

End of Safety Data Sheet.