



# Safety Data Sheet

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name/Identifier</b>	Contact Cleaner (Fast Dry) (Aerosol)
<b>Product Code</b>	EE1331-A / EE1331-AM / EE1331-AX
<b>Product Use</b>	Cleaning solvent for removing dust, dirt deposits, etc from contact points, sensitive surfaces containing circuitry or PCB boards
<b>Company Information</b>	Vance Chemicals Pte Ltd No.24 Gul Lane Singapore 629418 +65 6863 0863 <a href="mailto:msds@mr-mckenic.com">msds@mr-mckenic.com</a>
<b>Emergency Contact</b>	+65 9299 8024

## SECTION 2 HAZARDS IDENTIFICATION

### GHS CLASSIFICATION

Health		Environmental	Physical
Skin Corrosion/Irritation	Category 2	Not Classified	Not Classified
Aspiration Toxicity	Category 2		

### GHS LABEL:



### Hazard Statements:

- H315 Causes skin irritation  
H305 May be harmful if swallowed and enters airways

### Prevention:

- P264 Wash face, hands and any exposed skin thoroughly after handling  
P280 Wear protective gloves/protective clothing/eye protection/face protection

### Response:

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

### Storage:

- P405 Store locked up.

### Disposal:

- P501 Dispose of content/containers according to the local/regional/national/international regulation.



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## SECTION 3 COMPOSITIONS / INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	EINECS #	R Phrase	S Phrase	Weight %
Naphtha (petroleum) hydrodesulfurized light, dearomatized	92045-53-9	295-434-2	R11, R38, R51/53, R65, R67	S9, S16, S23, S24, S33, S43A, S57, S60, S62	>10
1,1-dichloro-1-fluoroethane	1717-00-6	404-080-1	R52/53, R59	S59, S61	>80
Carbon Dioxide	12438-9	204-696-9	-	-	<6

## SECTION 4 FIRST AID MEASURES

### Eye Contact

Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.

### Skin Contact

Wash exposed area thoroughly with soap and water. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.

### Inhalation

Remove the victim into fresh air. Seek for medical treatment in the event of symptoms.

### Ingestion

Seek medical advice immediately. Rinse mouth with water and do not induce vomiting.

## SECTION 5 FIRE FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing agents appropriate for surrounding fire.

### Unsuitable Extinguishing Media

Not determined.

### Specific Hazards Arising from the Chemical

Not determined.

### Protection for Fire-fighters

Evacuate personnel to safe areas. Intervention only by capable personnel who are trained and aware of the hazards of the product. In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Clean contaminated surface thoroughly.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions and Protective Equipment

Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Keep away from incompatible products. Isolate the area.

### Environmental Precautions



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Prevent discharges into the environment (sewers, rivers, soils). Immediately notify the appropriate authorities in case of discharge.

## Method for Cleaning Up & Containment

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Call for assistance for disposal.

## Emergency Procedures

Shut off leaks, if possible without personal risks. Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

## SECTION 7 HANDLING AND STORAGE

### Precautions for Safe Handling

Do not eat, drink or smoke in work area. Avoid contact with eye, skin and clothing. After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation. Avoid breathing vapors or spray mists. Avoid large quantities of material into live electrical motors and other such equipments.

### Conditions for Safe Storage

Keep container dry. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place.

Storage Temperature : Ambient  
Storage/Transport Pressure : Atmospheric

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Naphtha (Petroleum) hydrodesulfurized light, dearomatized	346ppm	Not Established	Not Established	Not Established
1,1-dichloro-1-fluoroethane	Not Established	Not Established	Not Established	Not Established
Carbon Dioxide	5000ppm	30000ppm	5000	Not Established

### Engineering Controls

Ensure adequate ventilation. Provide appropriate exhaust ventilation at machinery. Refer to protective measures listed in sections 7 and 8. Apply technical measures to comply with the occupational exposure limits.

### Personal Protective Equipment (PPE)

#### Eye Protection

Eye protection is not required under normal conditions of use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.

#### Skin Protection



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No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc) over parts of the body subjected to exposure. Launder soiled clothes. Proper dispose of contaminated leather articles including shoes, which cannot be decontaminated. Use rubber gloves if necessary.

### Respiratory Protection

In the case of hazardous fumes, wear self contained breathing apparatus. Self-contained breathing apparatus in medium confinement/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection.

### Thermal Hazards

NA

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear
<b>Odour</b>	Solvent odour
<b>Odour Threshold</b>	NA
<b>pH</b>	NA
<b>Melting Point/ Freezing Point (°C)</b>	Not determined
<b>Initial boiling point and range (°C)</b>	Not determined
<b>Flash Point (°C) [According to ISO 3679, Closed Cup Testing]</b>	No flash point detected (Liquid content, from ambient temperature to 93°C)
<b>Evaporation Rate (BuAc=1)</b>	Not determined
<b>Flammability (solid, gas)</b>	Non flammable gas
<b>Upper/lower Flammability (Explosive) Limits:</b>	LEL : 5.3 UEL : 17.3
<b>Vapour Pressure</b>	6.362 mbar
<b>Vapour Density</b>	Not determined
<b>Relative Density</b>	1.12 ± 0.03
<b>Solubility in water</b>	Insoluble
<b>Partition coefficient (N-Octanol/water)</b>	Not determined
<b>Auto-ignition Temperature (°C)</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined
<b>Viscosity (mPa s)</b>	Not determined
<b>Dielectric Breakdown Voltage (kV)</b>	12.3

## SECTION 10 STABILITY AND REACTIVITY

### Reactivity/Incompatible Materials

Strong oxidizers, reducing agents, metals, acids, and alkalis.

### Chemical Stability



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Stable at normal conditions of use.

## Possibility of Hazardous Reactions

Not determined

## Hazardous Decomposition Products

Hydrogen chloride, hydrogen fluoride, phosgene and fluorophosgene.

## Conditions to Avoid

Heat.

## Materials to Avoid

Light and/or alkaline metals, strong bases, ferric chloride, some molecular sieves, Alkaline earth metals and powdered metals.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Ingredient Name:** 1,1-Dichloro-1-fluoroethane

### Effects on humans:

#### Eye contact

- Moderate eye irritation

#### Skin contact

- In case of repeated contact: dry and chapped skin, risk of chronic dermatitis.

#### Inhalation

- At high concentrations, feelings of intoxication, restlessness, dizziness and drowsiness.

- At high concentrations, risk of cardiac arrhythmia.

- At high concentrations, risk of asphyxia by lack of oxygen.

#### Ingestion

- No reported cases of intoxication in man.

### Acute toxicity:

Acute oral toxicity (LD50): >5000mg/kg [Rat].

Acute dermal toxicity (LD50): >2000mg/kg [Rabbit].

Acute inhalation (LC50): 301mg/l/4h [Rat].

**Skin corrosion/irritation:** Rabbit, non-irritant

**Serious eye damage/irritation:** Rabbit, mild eye irritation

**Respiratory organ or skin sensitisation:** Guinea pig. Did not cause sensitization on laboratory animals.

**Carcinogenicity:** Not classified as a carcinogen under IARC

**Specific target organ toxicity:** Inhalation, after a single exposure, dog, NOEL:  $\geq 1$  %, cardiac sensitization following adrenergic stimulation. Inhalation, Prolonged exposure, rat, Target Organs: testes, Central nervous system, NOEL:  $\geq 0.024$  g/l, observed effect, Remarks: Leydig cells/benign tumours

**Ingredient Name:** Naphtha (Petroleum) hydrodesulfurized light, dearomatized

### Effects on humans:

#### Eye contact:

- Will cause eye discomfort, but will not injure eye tissue.



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## Skin contact:

- Low order of toxicity. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

## Inhalation:

- Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

## Ingestion:

- Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema. Minimal toxicity.

## **Acute toxicity:**

Acute oral toxicity (LD50): >1700mg/kg [Rat].

Acute dermal toxicity (LD50): Not established.

Acute inhalation (LC50): Not established.

**Skin corrosion/irritation:** Cause skin irritant

**Serious eye damage/irritation:** Cause eye irritant

**Carcinogenicity:** Not listed under IARC.

## SECTION 12 ECOLOGICAL INFORMATION

### **Toxicity**

No data available

### **Persistence/Degradability**

Not expected to bio-accumulate significantly

### **Bio accumulative Potential**

Not expected to bio-accumulate significantly

## SECTION 13 DISPOSAL CONSIDERATIONS

### **Local Legislation**

Dispose in compliance with local/federal and national regulations. It is recommended to contact the producer for recycling/recovery. Or send the product to an authorized hazardous waste incinerator.

### **Container Disposal**

To avoid treatments, as far as possible, use dedicated containers. If not, rinse the empty containers with a low volatility hydrocarbon and treat the effluent in the same way as waste. Containers that cannot be cleaned must be treated as waste.

## SECTION 14 TRANSPORT INFORMATION

### **Land (ADR)**

**UN number** 1950

**UN Class** 2.2

**Subsidiary risk** NA

**Packing Group** NA

**Proper shipping name** Aerosol, Non-flammable



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**HIN** NA

## Sea (IMDG)

**UN number** 1950  
**UN Class** 2.2  
**Subsidiary risk** NA  
**Packing Group** NA  
**Proper shipping name** Aerosol, Non-flammable  
**Marine pollutant** NA

## Sea (Annex II of MARPOL 73/78 and the IBC Code)

**Pollution category** NA  
**Ship type** NA  
**Product name** NA

## Air (IATA)

**UN number** 1950  
**UN Class** 2.2  
**Subsidiary risk** NA  
**Packing Group** NA  
**Proper shipping name** Aerosol, Non-flammable

## Special precautions:

Before transportation, make sure the containers are tightly sealed and that there are no liquid or gas leaks.

When transporting containers, be sure that they are tightly fastened. An appropriate buffer material should be placed between them to prevent them from bumping each other and being damaged during transport.

## SECTION 15 REGULATORY INFORMATION

### EU Information

#### Risk Phrase:

**R11** Highly flammable  
**R38** Irritating to skin  
**R51/53** Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.  
**R52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
**R59** Dangerous for the ozone layer  
**R65** Harmful: may cause lung damage if swallowed  
**R67** Vapours may cause drowsiness and dizziness.



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## Safety Phrase:

- S9** Keep container in a well-ventilated place
- S16** Keep away from sources of ignition – No smoking
- S23** Do not breathe gas/fumes/vapour/spray
- S24** Avoid contact with skin
- S33** Take precautionary measures against static discharges
- S43A** In case of fire use sand, earth, chemical powder or foam.
- S57** Use appropriate container to avoid environmental contamination.
- S59** Refer to manufacturer/supplier for information on recovery/recycling.
- S60** This material and its container must be disposed of as hazardous waste
- 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

## USA Information

### Comprehensive Environmental Response and Liability Act of 1980 (CERCLA)

<u>Ingredient</u>	<u>CAS #</u>	<u>CERCLA RQ</u>	<u>RCRA Code</u>
1,1-dichloro-1-fluoroethane	1717-00-6	-	-

### Superfund Amendments and Reauthorization Act (SARA) Title III Information:

#### SARA Section 311/312 (40 CFR 370) Hazard Categories:

<u>Ingredient</u>	<u>Acute Hazard</u>	<u>Chronic Hazard</u>	<u>Fire Hazard</u>	<u>Pressure Hazard</u>	<u>Reactivity Hazard</u>
Naphtha (petroleum), hydrodesulfurized light, dearomatized	Yes	Yes	Yes	No	No
1,1-dichloro-1-fluoroethane	Yes	Yes	No	No	No

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):** 1,1-dichloro-1-fluoroethane

## Canada Information

**This product does not contain any chemical(s) which is listed under WHMIS classification.**

## SECTION 16 OTHER INFORMATION

**Department issuing date sheet:** Vance Chemicals Quality Control and Laboratory

**Original Issue date:** 1<sup>st</sup> January 2010

**Revision no:** 05





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**Revision date:** 18 August 2014

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