



Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name/Identifier	Dry Moly Lubricant (Aerosol)
Product Code	LU1801 - AF
Product Use	It has an excellent anti-friction and anti-seize properties. It is able to protect surfaces from moisture, rust and corrosion and it can withstand high temperature and extreme pressure.
Company Information	Vance Chemicals Pte Ltd No.24 Gul Lane Singapore 629418 +65 6863 0863 msds@mr-mckenic.com
Emergency Contact	+65 9299 8024

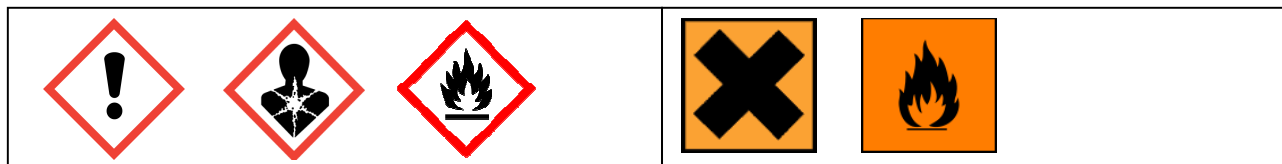
SECTION 2 HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Health		Environmental	Physical
Eye irritation	Category 2	Not Classified	Flammable aerosol Category 2
Skin irritation	Category 2		
Acute toxicity (dermal)	Category 5		
Acute toxicity (Oral)	Category 5		
Specific target organ toxicity (Repeated exposure)	Category 2		
Carcinogenicity	Category 2		

GHS LABEL:

EU LABEL:





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Hazard Statements:

Code	Health hazard statements	Hazard class	Hazard category
H223	Flammable aerosol	Flammable aerosol (chapter 2.3)	2
H303	May be harmful if swallowed	Acute toxicity, oral (chapter 3.1)	5
H313	May be harmful in contact with skin	Acute toxicity, dermal (chapter 3.1)	5
H315	Causes skin irritation	Skin corrosion/irritation (chapter 3.2)	2
H320	Causes eye irritation	Eye damage/irritation(chapter 3.3)	2
H351	Suspected of causing cancer	Carcinogenicity (chapter 3.6)	2
H373	May cause damage to organ through prolonged or repeated exposure	Specific target organ toxicity, repeated exposure (chapter 3.8)	2

Precautionary Statements

Prevention:

Code	Prevention precautionary statements	Hazard class	Hazard category
P201	Obtain special instructions before use	Carcinogenicity (chapter 3.6)	2
P202	Do not handle until all safety precautions have been read and understood.	Carcinogenicity (chapter 3.6)	2
P210	Keep away from heat/sparks/open flames/hot surfaces- No smoking	Flammable aerosol (chapter 2.3)	2
P251	Pressurized container: Do not pierce or burn, even after use.	Flammable aerosol (chapter 2.3)	2
P260	Do not breathe dust/fume/gas/mist/vapour/spray	Specific target organ toxicity, repeated exposure (chapter 3.8)	2
P264	Wash thoroughly after handling	Eye damage/irritation(chapter 3.3)	2
		Skin corrosion/irritation (chapter 3.2)	2
P280	Wear protective gloves/protective clothing/eye protection/face protection	Skin corrosion/irritation (chapter 3.2)	2
P281	Use personal protective equipment as required	Carcinogenicity (chapter 3.6)	2

Response:

Code	Response precautionary statements	Hazard class	Hazard category
P302+P352	IF ON SKIN: Wash with plenty of soap and water	Skin corrosion/irritation (chapter 3.2)	2



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P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing	Eye damage/irritation(chapter 3.3)	2
P308+P313	IF EXPOSED OR CONCERNED: Get medical advice/attention	Carcinogenicity (chapter 3.6)	2
P312	Call a POSION CENTER/doctor/physician if you feel unwell.	Acute toxicity, oral (chapter 3.1)	5
		Acute toxicity, dermal (chapter 3.1)	5
P314	Get medical advice/attention if you feel unwell.	Specific target organ toxicity, repeated exposure (chapter 3.8)	2
P321	Specific treatment (see ... on this label)	Skin corrosion/irritation (chapter 3.2)	2
P337+P313	If eye irritation persists: Get medical advice/attention.	Eye damage/irritation(chapter 3.3)	2
P332+P313	If skin irritation occurs: Get medical advice/attention.	Skin corrosion/irritation (chapter 3.2)	2
P362	Take off contaminated clothing and wash before reuse.	Skin corrosion/irritation (chapter 3.2)	2

Storage:

Code	Disposal precautionary statements	Hazard class	Hazard category
P405	Store lock up	Carcinogenicity (chapter 3.6)	2
P410+P412	Protect from sunlight. Do not expose to temperatures not exceeding 50°C/122°F.	Flammable aerosol (chapter 2.3)	2

Disposal:

Code	Disposal precautionary statements	Hazard class	Hazard category
P501	Dispose of content/containers according to the local/regional/national/international regulation.	Carcinogenicity (chapter 3.6)	2
		Specific target organ toxicity (Repeated exposure) (chapter 3.8)	2

SECTION 3 COMPOSITIONS / INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	EINECS #	R Phrase	S Phrase	Weight %
Nickel	7440-02-0	231-111-4	R40, R43	S22, S36	<10



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Aluminium paste	7429-90-5	231-072-3	R10, R15	S7/8, S43, S60	<1
Zinc dialkydithiophosphate	-	-	R36, R51/53	S25, S26, S61	<5
1,1-dichloro-1-fluoroethane	1717-00-6	404-080-1	R52/53, R59	S59, S61	>60
Naphtha (petroleum), Hydrodesulfurized light	92045-53-9	295-434-2	R11, R38, R51/53, R65, R67	S9, S16, S23, S24, S33, S43A, S57, S60, S62	10-30
Butane	106-97-8	203-448-7	R12	S2, S9, S16	10-30
Non-hazardous materials	Mixture	-	-	-	10-30

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	Remove contaminated clothing. Flush exposed area with large amount of water for at least 15 minutes followed by washing with soap. If redness, swelling, pain and blister occur, transport to the nearest medical facility for additional treatment.
Inhalation	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation
Ingestion	If swallowed, do not induce vomiting; transport to nearest medical facility for additional treatment.

SECTION 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use water spray, fog or foam to cool fire exposed surfaces and to protect personnel.
Unsuitable Extinguishing Media	No restriction
Specific Hazards Arising from the Chemical	Hazardous decomposition products. Gas/vapours combustion possible in presence of air in very particular conditions.
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 fire, wear self-contained breathing apparatus. Use water spray to cool fire exposed surfaces and to protect personnel.



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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment	Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible products. Isolate the area. Cover the spreading liquid with foam in order to slow down the evaporation. Ventilate the area.
Environmental Precautions	<u>Large Spills:</u> Dyke far ahead of liquid spill for later recovery and disposal. Prevent discharges into the environment (sewers, rivers, soils), basements or confined areas. Immediately notify the appropriate authorities in case of discharge.
Method for Cleaning Up & Containment	<u>Land Spill:</u> Stop leak if you can do so without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. Vapour-suppressing foam may be used to reduce vapour. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. <u>Large Spills:</u> Water spray may reduce vapour, but may not prevent ignition in enclosed spaces. Recover by pumping or with suitable absorbent. <u>Water Spill:</u> Stop leak if you can do so without risk. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.
Emergency Procedures	Shut off leaks, if possible without personal risks. Remove all possible ignitions in the surrounding area. Use appropriate containment to avoid environmental contamination. 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: Avoid contact with skin and eyes. Prevent product vapours decomposition from contacting hot spots. Prevent product vapours decomposition from electric arc action (welding). Preferably transfer by pump or gravity. Use only equipment and materials which are compatible with the product. Keep away from heat and sources of ignition. Keep away from incompatible products.

Conditions for Safe Storage: Keep container dry. Keep in a cool, well-ventilated place. Open slowly in order to control possible pressure release. Ground all equipment containing material. Storage containers should be earthed and bonded. Drums must be earthed and bonded and equipped with self-closing valves, pressure vacuum bungs and flame arresters.



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Keep container tightly closed. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Storage temperature: Ambient

Storage/Transport Pressure: Atmospheric

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Nickel	1.5 mg/m ³	Not Established	1 mg/m ³	Not Established
Aluminium paste	6 mg/m ³	Not Established	Not Established	Not Established
Zinc dialkyldithiophosphate	Not Established	Not Established	Not Established	Not Established
1,1-dichloro-1-fluoroethane	Not Established	Not Established	Not Established	Not Established
Naphtha (petroleum), Hydrodesulfurized light	Not Established	Not Established	346 ppm	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.
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Personal Protective Equipment (PPE):

Eye Protection	Wear protective goggles for all industrial operations. If risk of splashing, chemical proof goggles/face shield.
Skin Protection	Apron/boots of neoprene if risk of splashing. For hand protection, use chemical resistant protective gloves such as Polyvinyl alcohol.
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

Appearance	Greyish black
Odour	Characteristic



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Odour Threshold	NA
pH	NA
Melting Point/ Freezing Point (°C)	Not determined
Initial boiling point and range (°C)	Not determined
Flash Point (°C) [According to ISO 3679, Closed Cup Testing]	No flash point detected (Liquid content, from ambient temperature to 93°C)
Evaporation Rate	Not determined
Flammability (solid, gas)	Flammable gas
Upper/lower Flammability (Explosive) Limits:	Not determined
Vapour Pressure	Not determined
Vapour Density	Not determined
Relative Density	1.33 ± 0.03
Solubility in water	Insoluble
Partition coefficient (N-Octanol/water)	Not determined
Auto-ignition Temperature (°C)	Not determined
Decomposition Temperature:	Not determined
Viscosity (mPa s)	Not determined

SECTION 10 STABILITY AND REACTIVITY

Reactivity/Incompatible materials	Strong oxidizers, strong caustics, Avoid contact with open flames and electrical arcs.
Chemical Stability	Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	Contact with strong bases or alkaline materials may provoke violent reactions or explosions. Vapours are heavier than air and may spread along floors.
Hazardous decomposition products	Hydrogen fluoride, hydrochloric acid, phosgene, fluorophosgene.
Conditions to avoid	Moisture, heat, flames, ignition sources and incompatibles.
Materials to avoid	Light and/or alkaline metals, strong bases, ferric chloride, powdered metals,



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alkaline earth metals.

SECTION 11 TOXICOLOGICAL INFORMATION

Ingredient Name: Nickel

Effects on humans:

Eye contact:

- May cause eye irritation.

Skin contact:

- May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May cause severe irritation and possible burns. May cause dermatitis.

Inhalation:

- Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. Inhalation of a mist of this material may cause respiratory tract irritation.

Ingestion:

- Cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Acute toxicity:

Acute oral toxicity (LD50): Not established.

Acute dermal toxicity (LD50): Not established.

Acute inhalation (LC50): Not established.

Skin corrosion/irritation: Rabbit, irritant

Serious eye damage/irritation: Rabbit, irritant

Carcinogenicity: Listed under IARC, group 2B.

Chronic effects/Other toxicological information: Nickel and nickel compounds may cause a form of dermatitis known as nickel itch. They may also cause intestinal disorders, convulsions and asphyxia. Airborne nickel contaminated dusts are regarded as carcinogenic to the respiratory tract. Tumorigenic effects have been observed on tests with laboratory animals.

Ingredient Name: Aluminium paste

Effects on humans:

Eye contact:

- May cause eye irritation.

Skin contact:

- May cause skin irritation.

Inhalation:

- May cause respiratory tract irritation.

Ingestion:

- Cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Acute toxicity:



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Acute oral toxicity (LD50): Not established.
Acute dermal toxicity (LD50): Not established.
Acute inhalation (LC50): Not established.

Skin corrosion/irritation: Rabbit, irritant

Serious eye damage/irritation: Rabbit, irritant

Carcinogenicity: Not listed under IARC.

Ingredient Name: Zinc dialkydithiophosphate

Effects on humans:

Eye contact:

- May cause eye irritation.

Skin contact:

- May cause slightly irritation to skin.

Inhalation:

- No information

Ingestion:

- No information

Acute toxicity:

Acute oral toxicity (LD50): 4.74 ml/mg [Rat].

Acute dermal toxicity (LD50): Not established.

Acute inhalation (LC50): Not established.

Skin corrosion/irritation: Rabbit, irritant

Serious eye damage/irritation: Rabbit, irritant

Carcinogenicity: Not listed under IARC.

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:



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

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

Acute inhalation toxicity (LC50): 301 mg/l [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 listed 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: ≥ 0.024 g/l, observed effect, Remarks: Leydig cells/benign tumours

Ingredient Name: Naphtha (petroleum), Hydrodesulfurized light

Effects on humans:

Eye contact

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

Skin contact

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

Ingestion

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

Inhalation

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

Acute toxicity:

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

Acute dermal toxicity (LD50): Not established.

Acute inhalation (LC50): Not established.

Skin corrosion/irritation: mild skin irritation

Serious eye damage/irritation: mild eye irritation

Carcinogenicity: Not listed under IARC.

Ingredient Name: Butane

Effects on humans:

Eye effects:

- Adverse effects are not anticipated as product is a gas at room temperature.

Skin effects:



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- Adverse effects not anticipated.

Inhalation effects:

- Product is relatively nontoxic. Simple hydrocarbons can irritate the eyes, mucous membranes and respiratory system at high concentrations. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects. This product may displace oxygen if released in a confined space. Maintain oxygen levels above 19.5% at sea level to prevent asphyxiation. Effects of oxygen deficiency resulting from simple asphyxiate may include: rapid breathing diminished mental alertness, impaired muscular coordination, faulty judgement, depression of all sensations, emotional instability, and fatigue. As asphyxiation progresses, nausea, vomiting, prostration, and loss of consciousness may result, eventually leading to convulsions, coma, and death. Oxygen deficiency during pregnancy has produced developmental abnormalities in humans and experimental animals.

Ingestion effects:

- Ingestion is unlikely.

Acute toxicity:

Acute oral toxicity (LD50): Not established

Acute dermal toxicity (LD50): Not established

Acute inhalation (LC50): 658 g/m³/4H [Rat].

Skin corrosion/irritation: Not irritating to skin.

Serious eye damage/irritation: Irritating to eye

Carcinogenicity: Not listed under IARC.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity	<u>Acute ecotoxicity</u> Fishes, Brachydanio rerio, LC 50, 96 h > 100mg/l
Persistence/Degradability	Not expected to be inherently biodegradable
Mobility in soil	Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids

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. The incinerator must be equipped with a system for the neutralization or recovery of HF.

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.

Empty Container Warning (where applicable):



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Empty containers may retain residue and can be dangerous. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14 TRANSPORT INFORMATION

Land (ADR)

UN number	1950
UN Class	2.1
Subsidiary risk	NA
Packing Group	NA
Proper shipping name	Aerosols, Flammable
HIN	NA

Sea (IMDG)

UN number	1950
UN Class	2.1
Subsidiary risk	NA
Packing Group	NA
Proper shipping name	Aerosols, Flammable
Marine pollutant	NA

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

Pollution category	NA
Ship type	NA
Product name	NA



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Air (IATA)

UN number	1950
UN Class	2.1
Subsidiary risk	NA
Packing Group	NA
Proper shipping name	Aerosols, 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:

R10	Flammable
R11	Highly flammable
R12	Extremely flammable
R15	Contact with water liberates highly flammable gases
R36	Irritating to eyes
R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitization by skin contact
R51/53	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 to the ozone layer
R65	Harmful: may cause lung damage if swallowed



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R67	Vapours may cause drowsiness and dizziness
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Safety Phrase:

S2	Keep out of the reach of children.
S7/8	Keep container tightly closed and dry
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition – No smoking!
S22	Do not breathe dust
S23	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
S24	Avoid contact with the skin
S25	Avoid contact with eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S33	Take precautionary measures against static discharges
S36	Wear suitable protective clothing
S43	In case of fire, use water
S60	This material and/or its container must be disposed of as hazardous waste
S61	Avoid release to the environment. Refer to special instructions/material safety data sheet
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show the 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>
Nickel	7440-02-0	100	-
Aluminium paste	7429-90-5	-	-
1,1-dichloro-1-fluoroethane	1717-00-6	-	-
Butane	106-97-8	-	-



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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>
Nickel	Yes	Yes	No	No	No
Aluminium paste	Yes	Yes	Yes	No	No
1,1-dichloro-1-fluoroethane	Yes	Yes	No	No	No
Naphtha (petroleum), Hydrodesulfurized light	Yes	Yes	Yes	No	No
Butane	Yes	No	Yes	Yes	No

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

Canada Information

WHMIS classification:

Nickel

- D2A Very toxic material causing other toxic effects
- D2B Toxic material causing other toxic effects

Aluminium

- B6 Reactive flammable material

Butane

- A Compressed gas
- B1 Flammable gas

SECTION 16 OTHER INFORMATION

Department issuing date sheet: Vance Chemicals Quality Control and Laboratory

Original Issue date: 1st January 2010

Issue date: N.A

Revision date: 23rd September 2011

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