vertex lubricants
Oils // Grease // Coolant // Chemicals

MSDS
Material Safety Data Sheet

CONTACT CLEANER AEROSOL

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Contact Cleaner Aerosol
Product Use: Precision Electrical & Electronic Equipment Cleaner
Other Name: None
Supplier: Vertex Lubricants
22 Marphona Crescent
Takanini 2105
Phone: 09/640 0004
Email: info@vertexlubricants.co.nz
Emergency Number: 0800 353 645
National Poisons Centre: 0800 764 766
Chemical Nature: Isohexane, Ethanol, Butane, Propane
Issue Date: 27 July 2023 and is valid for 5 years from this date.

SECTION 2 – HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses
Subclass 2.1.2 Category A - Flammable Aerosols.
Subclass 6.1 Category E - Substances which are acutely toxic.
Subclass 6.3 Category B - Substances that are mildly irritating to the skin.
Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment. Aerosols (Flammable) Group Standard 2006

Hazard and Precautionary Information:
Warning. Flammable aerosol. Causes mild skin irritation. May be harmful if inhaled. Toxic to aquatic life with long lasting effects. Keep out of reach of children. Read label before use. Read Safety Data Sheet before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No	Conc %	TWA (mg/m^3)	STEL (mg/m^3)
Isohexane	64742-49-0	> 60	500	3500
Ethanol	64-17-5	10 - 30	1880	Not Established
Butane	106-97-8	< 10	1900	Not Established
Propane	74-98-6	< 10	Simple Asphyxiant	Not Established
Non-hazardous ingredients				

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible. The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

SECTION 4 – FIRST AID MEASURES

General Information:
You should call The Poisons Information Centre if you feel that you may have been poisoned, burned, or irritated by this product. The number is 0800 764 766 and is available at all times. Have this MSDS with you when you call.

Eye Contact
In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation assists.

Skin Contact
Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms appear.

Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion
If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed. Can enter lungs and cause damage. Get medical attention immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Hazards from combustion products: Flammable gas. On burning will emit toxic fumes, including those of oxides of carbon.

Precautions for fire fighters and special protective equipment: Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem Code: 2YE

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency procedures: Shut off all possible sources of ignition. Clear area of all unprotected personnel.

Methods and materials for containment and clean up: In the event of an aerosol can developing a leak, allow to fully discharge in the open air before disposal.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: Avoid skin and eye contact and breathing in vapour, mists and aerosols. Ensure spray nozzle is always directed away from the user. May form flammable vapour mixtures with air. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Vapour may travel a considerable distance to source of ignition and flash back.

Conditions for safe storage: Store in cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidising agents. Keep containers closed when not in use check regularly for leaks.

SECTION 8 – EXPOSURE CONTROLS AND PEROSNAL PROTECTION

Occupational Exposure Limits: No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH).

Workplace Exposure Standard(s) for constituent(s):
Butane: WESTWA 800 ppm, 1,900 mg/m^3
Propane: Simple asphyxiant may present an explosion hazard
As published by the New Zealand Occupational Safety and Health Service (OSH).
No Exposure Standards assigned to other constituents.
WES TWA (Workplace Exposure Standard Time Weighted Average)

The eight-hour, time weighted average exposure standard is designed to protect the worker from the effects of long-term exposure. Asphyxiant gases which can lead to reduction of oxygen concentration by displacement or dilution. The minimum oxygen content in air should be 18% by volume under normal atmospheric pressure. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls
Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Use in well-ventilated areas. Keep containers closed when not in use. An asphyxiant gas which can lead to the displacement or dilution of oxygen. The minimum oxygen content in air should be 18% by volume under normal atmospheric pressure.

Personal Protective Equipment
The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Wear clean overalls, safety boots, general purpose gloves (PVC) and safety spectacles. Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storage or reuse. For leaking aerosol cans: Wear clean overalls, safety boots, general purpose gloves (PVC) and full-face visor. If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

FOR CONSUMER USE
Wear rubber gloves and eye protection while handling the product. Wash hands after use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid spray
Odour:	Characteristic odour.
Boiling Point:	No specific data. Liquid at normal temperature.
Freezing/Melting Point:	No specific data. Liquid at normal temperatures.
Can Pressure, kPa:	300–600
Vapour Pressure:	Nil at normal ambient temperatures.
Vapour Density, (Air = 1):	> 1
Flash Point ^{0}C:	< 0 (Hydrocarbon propellant)
Water Solubility:	Dispersible

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.

Conditions to avoid: Avoid exposure to heat, sources of ignition, and open flame.

Incompatible materials: Incompatible with oxidising agents.

Hazardous decomposition products: Oxides of carbon.

Hazardous reactions: Hazardous polymerisation will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs. Breathing in vomit may lead to aspiration pneumonia (inflammation of the lung).

Eye contact: May be an eye irritant.

Skin contact: Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhalation: Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness. Intentional misuse by deliberately concentrating and breathing the contents can be harmful or fatal.

Long Term Effects: No information available for the product.

Toxicological Data: No LD50 data available for the product.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity
Avoid contaminating waterways.

SECTION 13 – DISPOSAL CONSIDERATION

Disposal methods

Refer to Waste Management Authority. Advise flammable nature. Do not puncture or burn can when empty; contents are under pressure. If aerosol develops a leak, allow to fully discharge before disposal. Normally suitable for disposal at approved land waste site.

SECTION 14 – TRANSPORT INFORMATION

Road and Rail Transport
Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.
UN No: 1950
Class-primary: 2.1 Flammable Gas
Proper Shipping Name: AEROSOLS
Hazchem Code: 2YE

Marine Transport
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea, DANGEROUS GOODS.
UN No: 1950
Class-primary 2.1 Flammable Gas
Proper Shipping Name: AEROSOLS

Air Transport:
Classified as Dangerous Goods by the criteria of the International Air Transport Association
(IATA) Dangerous Goods
Regulations for transport by air; DANGEROUS GOODS.
UN No: 1950
Class-primary: 2.1 Flammable Gas
Proper Shipping Name: AEROSOLS, FLAMMABLE.

SECTION 15 – REGLATORY INFORMATION

Classification
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses:
Subclass 2.1.2 Category A - Flammable Aerosols.
Subclass 6.1 Category E - Substances which are acutely toxic.
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Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment.
Aerosols (Flammable) Group Standard 2006

SECTION 16 – ANY OTHER RELEVANT INFORMATION

Date of preparation of MSDS
27 July 2023

Previous Version
December 2022

MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using the product.