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MATERIAL SAFETY DATA SHEET


LANOX-mx4 Aerosol

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Chemical nature	Lubricant aerosol
Trade Name	LANOX-mx4 Aerosol
Product Code	21-LANOX
Product Use	Heavy duty anti-corrosion lanolin-based lubricant
Company	NFK Glazing & Industrial Supplies
Contact phone	+61 7 3343 3377
Emergency phone Poisons Information Centre:	1800 033 111, 13 11 26 from anywhere in Australia

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2. HAZARDS IDENTIFICATION

2.1 STATEMENT OF HAZARDOUS NATURE

This product is classified as: Hazardous according to the criteria of SWA.
Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

SUSMP Classification: None allocated.

ADG Classification: 2

UN Number: 1950, AEROSOLS

GHS Signal word: **DANGER**

Flammable aerosols Category 2

Aspiration Hazard Category 1



2.2 HAZARD STATEMENT

H223	Flammable aerosol
H229	Pressurised container: may burst if heated
H304	May be fatal if swallowed and enters airways

2.3 PREVENTION (1.1)

P210	Keep away from heat, sparks, open flames and hot surfaces. - No smoking
P211	Do not spray on an open flame or other ignition source
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical ventilating, lighting and other equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P251	Do not pierce or burn, even after use
P261	Avoid breathing fumes, mists, vapours or spray
P262	Do not get in eyes, on skin, or on clothing
P271	Use only outdoors or in a well ventilated area
P280	Wear protective gloves, protective clothing and eye or face protection

2.4 RESPONSE (1.1)

P362	Take off contaminated clothing and wash before reuse
P301+P310 IF SWALLOWED	Immediately call a POISON CENTRE or doctor
P301+P330+P331 IF SWALLOWED	Rinse mouth. Do NOT induce vomiting
P303+P361+P353 IF ON SKIN (or hair)	Remove immediately all contaminated clothing. Rinse skin with water

2.4 RESPONSE (1.2)

P372	Explosion risk in case of fire
P381	Eliminate all ignition sources if safe to do so
P370+P378	In case of fire, use carbon dioxide, dry chemical, foam. Water fog or fine spray is the preferred medium for large fires

2.5 STORAGE

P403	Store in a well-ventilated place
P405	Store locked up
P410+P412	Store below 30°C, protect from direct sunlight and do not expose to temperatures exceeding 50°C

2.6 DISPOSAL

P501	If they can not be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS)
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2.77 STATEMENT OF HAZARDOUS NATURE (NEW ZEALAND)

Aerosols Flammable Group Standard 2020 HSR002515.

DG Classification:

Classified as a Dangerous Good for transport in accordance with the Land Transport Rule Dangerous Goods 2005 and NZS 5433:2007.

2.6 EMERGENCY OVERVIEW

Physical Description & Colour	Aerosol, dispensed product is a tan liquid
Odour	Faint lanolin odour
Major Health Hazards	if aspirated, may cause lung damage

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Butane	106-97-8	<30	1900	not set
Propane	74-98-6	<10	not set	not set
Mineral spirit	64742-47-8	<20	not set	not set
Other non hazardous ingredients	secret	to 100	not set	not set

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.

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 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation:

No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact:

Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Eye Contact:

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed, while holding the eyelid(s) open. Obtain medical advice immediately if irritation occurs. Take special care if exposed person is wearing contact lenses.

Ingestion:

If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards:

The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Firefighters should take care and appropriate precautions. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media:

Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

Fire Fighting:

If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.

Flash point:

Propellant is flammable. Dispensed product has a flash point of 179°C when propellant gas has dissipated.

Upper Flammability Limit	Not available
Lower Flammability Limit	Not available
Autoignition temperature	No data
Flammability Class	No data


6. ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. As a minimum, wear overalls, goggles and gloves. No special recommendations for clothing materials. Eye/face protective equipment should comprise, as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

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Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Take suitable precautions e.g. use of non-sparking equipment to avoid creating sparks or flames which may ignite the spilled material. Leaking gases may form an explosion hazard. Any equipment capable of building an electrostatic charge should be electrically grounded.

Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

7. HANDLING AND STORAGE

7.1 HANDLING

Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

7.2 STORAGE

Store in a cool (below 30°C), well ventilated area. Protect from direct sunlight. Make sure that surrounding electrical devices and switches are suitable. Check containers and valves periodically for leaks. If you keep large quantities of Dangerous Goods, you may be required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment	AS/NZS 1715
Protective Gloves	AS 2161
Occupational Protective Clothing	AS/NZS 4501 set 2008
Industrial Eye Protection	AS1336 and AS/NZS 1337
Occupational Protective Footwear	AS/NZS2210

SWA Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)
Butane	1900	not set

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation:

This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Eye Protection:

Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection:

The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

Protective Material Types:

There is no specific recommendation for any particular protective material type.

Respirator:

Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Description & colour	Aerosol, dispensed product is a tan liquid
Odour	Faint lanolin odour
Boiling Point	Not applicable
Freezing/Melting Point	-26°C
Volatiles	No data
Vapour Pressure	No data
Vapour Density	No data
Specific Gravity	0.8461 (dispensed product)
Water Solubility	Negligible
pH	No data
Volatility	No data
Odour Threshold	No data
Evaporation Rate	No data
Coeff Oil/water Distribution	No data
Autoignition temp	No data

10. STABILITY AND REACTIVITY

Reactivity:

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid:

Store below 30°C, protect from direct sunlight and do not expose to temperatures exceeding 50°C. Containers should be kept dry. Keep containers and surrounding areas well ventilated. Keep away from sources of sparks or ignition. Any electrical equipment in the area of this product should be flame proofed. Protect this product from light.

Incompatibilities:

Strong oxidising agents, flammable liquids, corrosive materials.

Fire Decomposition:

Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation:

This product will not undergo polymerisation reactions.

11. TOXICOLOGICAL INFORMATION

Local Effects:

Target Organs:

There is no data to hand indicating any particular target organs.

11.1 CLASSIFICATION OF HAZARDOUS INGREDIENTS

Ingredient		
Propane	Butane	Mineral Spirit
<ul style="list-style-type: none"> • Flammable gas - category 1 • Gas under pressure 	<ul style="list-style-type: none"> • Flammable gas – category 1 • Gases under pressure 	<ul style="list-style-type: none"> • Aspiration hazard - category 1

11.2 POTENTIAL HEALTH EFFECTS

Inhalation:

Short Term Exposure:

Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort. Intentional misuse by deliberately concentrating and inhaling contents of aerosol containers can be harmful or fatal.

Long Term Exposure:

No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure:

Major health effect from this product is misuse of the aerosol function. If sprayed continuously on skin or in eyes, it can cause frostbite.

Long Term Exposure:

No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure:

If sprayed directly in the eye, this product will irritate. If spraying is prolonged, it may cause damage through frostbite.

Long Term Exposure:

No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure:

Significant oral exposure is considered to be unlikely. Because of the low viscosity of this product, it may directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs, it is very difficult to remove and can cause severe injury or death. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Long Term Exposure:

No data for health effects associated with long term ingestion.

Carcinogen Status:**SWA:**

No significant ingredient is classified as carcinogenic by SWA.

NTP:

No significant ingredient is classified as carcinogenic by NTP.

IARC:

No significant ingredient is classified as carcinogenic by IARC.

12. ECOLOGICAL INFORMATION

Insufficient data to be sure of status.

13. DISPOSAL CONSIDERATIONS

Disposal:

Aerosol containers can be disposed of in household waste or, in some areas, recycled, when empty. If it is necessary to dispose of unused product, or containers which are not empty, a specialist waste disposal company should be used. Never crush, puncture or burn aerosol containers, even when empty.

14. TRANSPORT INFORMATION

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

UN Number	1950, AEROSOLS
Hazchem Code	2YE
Special Provisions	63, 190, 277, 327, 344, 381
Limited quantities	ADG 7 specifies a Limited Quantity value of 1000mL for this class of product
Dangerous Goods Class:	Class 2.1: Flammable gases
Packing Group	Not set
Packing Instruction	P207, LP200

Class 2.1 Flammable gases shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 3 (Flammable Liquids) (where both flammable liquids and flammable gases are in bulk), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), and 7 (Radioactive Substances). They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.2 (Non-flammable Non-Toxic gases), 3 (Flammable liquids except where both flammable liquids and flammable gases are in bulk), 6 (Toxic Substances), 8 (Corrosive Substances) 9 (Miscellaneous dangerous goods), Foodstuffs and foodstuff empties.

15. REGULATORY INFORMATION

AICS:


All of the significant ingredients in this formulation are compliant with NICNAS regulations.


New Zealand:

Aerosols Flammable Group Standard 2020 HSR002515.

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16. OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

Acronyms.

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS 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 SDS 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 product.

Australia: This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016).

New Zealand: HSNO Approved Code of Practice: Preparation of Safety Data Sheets. New Zealand Chemical Industry Council September 2006.

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