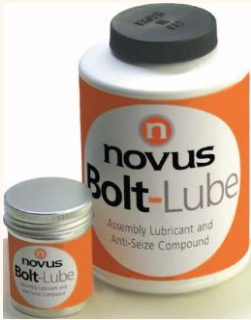


novus™ Bolt-Lube



Novus Bolt-Lube is a high quality assembly & anti-seize compound, designed for use on fasteners operating where arduous conditions may be encountered.

CONTACTS



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SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION AND COMPANY

- 1.1. **Product name:** Novus™ Bolt-Lube.
- 1.2. **Product use/ Application:** Novus™ Bolt-Lube has been formulated to provide easier assembly and disassembly of fasteners, thereby reducing the torque required to load and unload the joint. Due to the inclusion of an extreme pressure additive, it provides additional protection against galling or seizure. The compound is water resistant and assures long-term protection against rust and corrosion..

Application:

Ensure the bolt and nut threads are clean before application. Apply Bolt-Lube lubricant liberally using a brush to the bolt and nut threads and to the face of the nut to be tightened. Do not apply grease or bolt lubricant to the joint face.

1.3. Company identification:

Distributors and retailers:

Novus sealing Pty. Ltd.

ADDRESS: 13-15 - Vinnicombe Drive, Canning Vale, WA, 6155

Phone: +61 8 9455 2155 (8.30am to 5.00pm Monday to Friday).

Fax: +61 8 9455 2165.

Emergency email:

mailbox.novussealing.com.au

Emergency service contacts:

Emergency service: 000.

112 is available from all GSM or GSM derived mobile phones

106 is text-based service.

2. HAZARD IDENTIFICATION

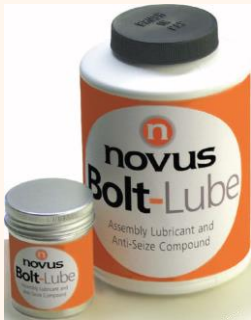
- 2.1. **Statement of hazardous nature:** Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia. Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

- 2.2. **Poisons schedule (Aust):** Not applicable.

2.3. Regulatory information:

NICNAS/AICS	Wt %	CAS Number	Statement
Lubricating Grease	60-70	74869-21-9	This chemical is listed on the 2002 Australian HVICL, NICNAS, and AICS.
Calcium carbonate	8-10	471-34-1	This chemical is listed on the 2002 Australian HVICL, NICNAS, and AICS.
Graphite	8-10	7440-44-0	This chemical is listed on the 2002 Australian HVICL, NICNAS, and AICS.
Zinc Oxide	8-10	1313-13-2	This chemical is listed on the 2002 Australian HVICL, NICNAS, and AICS
Molybdenum Disulphide	4-5	1317-33-5	This chemical is listed on the 2002 Australian HVICL, NICNAS, and AICS.

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2. HAZARD IDENTIFICATION - continued

2.3.1. Classification of items within the mixture:

NICNAS/AICS	Wt %	CAS Number	Statement
Lubricating Grease	60-70	74869-21-9	Non-hazardous within the statement.
Calcium carbonate	8-10	471-34-1	Non-hazardous within the statement.
Graphite	8-10	7440-44-0	Non-hazardous within the statement.
Zinc Oxide	8-10	1313-13-2	Non-hazardous within the statement.
Molybdenum Disulphide	4-5	1317-33-5	Non-hazardous within the statement.

2.4. RISK phrases:

R45 May cause cancer.
R38 Irritating to skin.

2.5. Safety information:

2.5.1. SAFETY phrases:

S15 Keep away from heat.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S41 In case of fire and or explosion, don not breathe fumes.

2.5.2. Safe handling:

S37 Wear suitable gloves.
S23 Avoid contact with eyes.
R36/37/38 Irritating to eyes, respiratory system and skin.
S20/21 When using, do not eat, drink or smoke.
S24/25 Avoid contact with skin and eyes.
S27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of... (to be specified by the manufacturer).

2.6. Other hazard information:

Main Hazards	Health effect
Eyes	May cause irritation.
Skin	Possible rash if sensitised.
Inhalation	Viscous nature may block breathing passages if inhaled.
Ingestion	May cause diarrhoea.
Environment	vPvB – nil.

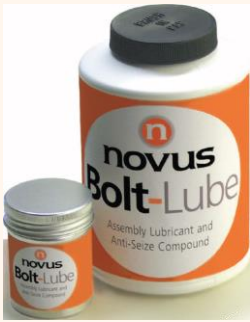
2.7. Label elements: Not applicable to these products.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Materials used to produce this sheet material are listed in section 2.1 of this document.

3.2. Mixtures: Not applicable to this material.

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4. FIRST AID MEASURES

4.1. Description of first aid measures:

General information: N/A

- | | |
|--|---|
| 4.2. Inhalation: | Clear air passages. If respiratory difficulty continues seek medical help. |
| 4.3. Skin contact: | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. |
| 4.4. Eye contact: | In case of contact with eyes, rinse immediately with plenty of water until all residual material has gone. If any irritation persists – seek medical attention. |
| 4.5. Ingestion: | Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting – seek medical attention. |
| 4.6. symptoms: | No information available. |
| 4.7. Indications of immediate medical attention being required: | No information available. |

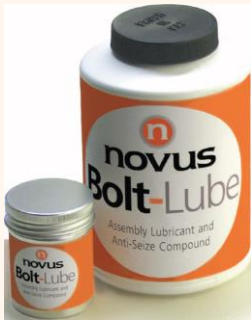
5. FIRE FIGHTING MEASURES

- | | |
|--|---|
| 5.1. General: | Some of the components will burn with difficulty in a sustained fire situation but will tend to self-extinguish when the source of ignition is removed. |
| 5.2. Extinguishing media: | Water or foam.
<i>Dry chemical powder and carbon dioxide may also be used. In view of the comments in 'general', the source of the fire should be dealt with in accordance with requirements and the material will then self-extinguish.</i> |
| 5.3. Special hazards arising from the material: | None. |
| 5.4. Advise to fire fighters: | None. |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|--|---|
| 6.1. Personal precautions: | Gloves recommended. Use personal protective equipment ,
Ventilate area. Avoid breathing vapors. |
| 6.2. Environmental precautions: | Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. |
| 6.3. Cleaning up: | Methods for Containment:
Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up:
Take up mechanically and collect in suitable container for disposal. Clean contaminated |

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7. HANDLING AND STORAGE

- 7.1. Handling:** Gloves should be worn, when handling these products. Wear personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling.
- 7.2. Conditions for safe storage:** Keep container tightly closed in a dry and well-ventilated place. And cool dry conditions
- 7.3. Specific end uses:** Refer to appropriate technical data sheet.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

AUSTRALIA: Workplace Exposure Standard For Airborne Contaminants

Components	Type	Value	Notes
Calcium carbonate 471-34-1	TWA	10 mg/m ³	This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Graphite (CAS 7782-42-5)	TWA	3 mg/m ³	Containing no asbestos and < 1% crystalline silica.
Zinc Oxide [1314-13-2]dust	TWA	10 mg/m ³	This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Zinc Oxide [1314-13-2]fume	TWA	5 mg/m ³	Information not available.

8.1.1. Classification of items within the product.

Although several of the constituent parts used in the manufacture of spiral wound gaskets may be hazardous in the raw state, the manufacturing process results in a solid infusible form, binding or otherwise rendering them inert. Although these constituent parts do not come within the scope of the REACH regulations they are identified in the table below for information purposes only. Fumes and dust from these constituent parts can be released by overheating, machining or abrading the product.

Constituent Part	CAS Number	%	Exposure Limit US	Other Exposure Limits
Nickel	7440-02-0	<10	1 mg/m ³	0.5 mg/m ³
Chromium	7440-47-3	<15	0.5 mg/m ³	0.5 mg/m ³
Molybdenum	7439-98-7	<3	10 mg/m ³	10 mg/m ³
Silica (Quartz)	14808-60-7	<2	0.1 mg/m ³ (respirable)	0.1 mg/m ³
Graphite	7782-4205	<95	2.5 mg/m ³ (respirable)	10 mg/m ³

8.2. Personal protective equipment:

- 8.2.1. Respiratory protection:** Use suitable respirator are recommended always . When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- 8.2.2. Skin and hand protection:** Long sleeved clothing. Protective gloves.
- 8.2.3. Eye protection:** Safety glasses with side-shields.
- 8.2. Engineering measures:** Showers. Eyewash stations. Ventilation systems.

- 8.3. Hygiene Measures:** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before reuse.

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9. PHYSICAL AND CHEMICAL PROPERTIES

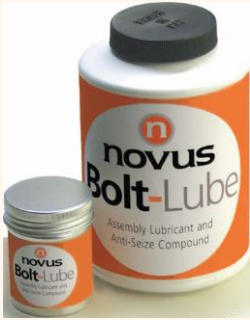
9.1. Information on basic physical and chemical properties.

Physical state:	Paste .
Colour and appearance:	Greenish black, semisolid.
Odour:	Petroleum
pH:	Neutral
Freezing /melting point:	N/A.
Boiling point :	326°C.
Flash point:	221°C.
Evaporation rate:	<0.01.
Flammability:	Not flammable at ambient temperatures.
Upper/lower flammability or explosion limits:	N/A.
Vapour pressure:	N/A.
Relative density:	1.19 g/cc.
Solubility in water:	Slightly Soluble in water .
Auto ignition temperature:	N/A.
Decomposition temperature:	N/A.
Viscosity:	N/A.
Explosive properties:	N/A.
Boiling point:	N/A.
Specific gravity:	N/A.
Coeff. Water/oil Dist.:	N/A.

10. STABILITY AND REACTIVITY

10.1. Reactivity:	N/A.
10.2. Chemical stability:	Chemically stable under normal circumstances.
10.3. Possibility of hazardous reaction:	N/A.
10.4. Conditions to avoid:	Powerful sources of ignition and extreme temperatures.
10.5. Incompatible materials:	Strong organic acids and oxidising agents.
10.6. Hazardous decomposition products:	Burning generates smoke, airborne soot, hydrocarbons and oxides of carbon and sulphur. Residue mainly comprised of soot and metal oxides.

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11. TOXICOLOGICAL INFORMATION

11.1.	Acute toxicity:	Not Known.
11.2.	Skin corrosion/ irritation:	Very mild.
11.3.	Serious eye damage/ irritation:	Not Known.
11.4.	Respiratory or skin sensitisation	Not Known.
11.5.	Germ or mutagenicity:	Not Known.
11.6.	Carcinogenicity	No.
11.7.	Reproductive toxicity:	No.
11.8.	STOT:	Not Known.
11.9.	Aspiration hazard:	Not Known.
11.10.	Respiration or skin sanitations :	Not Known.

12. ECOLOGICAL INFORMATION

12.1.	Toxicity:	N/A.
12.2.	Persistence and degradability:	N/A.
12.3.	Bio accumulative potential:	N/A.
12.4.	Mobility in soil:	N/A.
12.5.	Results of PBT and vPvB assessment:	N/A.
12.6.	Other adverse effects:	N/A.

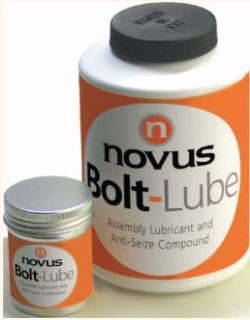
13. DISPOSAL CONSIDERATIONS

13.1. All waste should be disposed of in accordance with the requirements of Federal, State, Provincial and Local government. Consideration, should also be given to the potential for recycling or, if possible, by other environmentally friendly routes. *Do not incinerate.*

14. TRANSPORT INFORMATION

14.1.	Packaging:	Pack to prevent damage and liberation of any dust.
14.2.	Fright classification:	Not classified as dangerous goods.
14.3.	ADR number:	N/A.
14.4.	IMDG code:	N/A.
14.5.	Packing group:	N/A.
14.6.	Trem card:	N/A.
14.7.	UN number:	N/A.
14.8.	No special requirements.	

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15. REGULATORY INFORMATION

15.1. Regulatory information: Refer to section 2 and 15.4.

15.2 RISK phrases:

- R45 May cause cancer.
- R38 Irritating to skin.

15.3. Safety information:

15.3.1. Safety phase:

- S22 Keep away from heat.
- S15 In case of insufficient ventilation, wear suitable respiratory equipment.
- S41 In case of fire and or explosion, don not breathe fumes.

15.3.2. Safe handling:

- S37 Wear suitable gloves.
- S23 Avoid contact with eyes.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- S20/21 When using, do not eat, drink or smoke.
- S24/25 Avoid contact with skin and eyes.
- S27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of... (to be specified by the

15.4. Regulatory information:

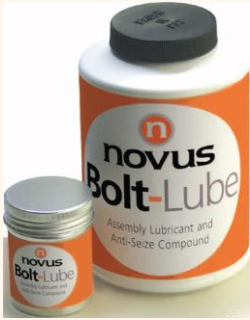
- **Lubricating grease [74869-21-9] is found on the following regulatory lists:**
 - Australia Hazardous Substances Information System - Consolidated List
- **Calcium Carbonate [471-34-1] is found on the following regulatory lists:**
 - Australia Exposure Standards
 - Australian Inventory of Chemical Substances (AICS)
 - National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
- **Graphite [7782-42-5] is found on the following regulatory lists:**
 - Australia Exposure Standards
 - Australia Hazardous Substances Information System - Consolidated List
 - Australian Inventory of Chemical Substances (AICS)
 - National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
- **Zinc Oxide [1314-13-2] is found on the following regulatory lists:**
 - Australia Exposure Standards
 - Australia Hazardous Substances Information System - Consolidated List
 - Australian Inventory of Chemical Substances (AICS)
 - National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
- **Molybdenum Disulphide [1317-33-5] is found on the following regulatory lists:**
 - Australian Inventory of Chemical Substances (AICS)
 - National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

Classification of items within the product.

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Constituent Part	CAS Number	%	Exposure Limit US	Other Exposure Limits
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16. ANY OTHER RELEVANT INFORMATION

16.1. List of abbreviations:

ADR	Accord Dangereux Routier.
HVICL	The Australian High Volume Industrial Chemical List.
IMDGC	International Maritime Dangerous Goods Code.
NNOHSC	NNOHSC-National Occupational Health and Safety Commission.
PBT	Persistent, Bioaccumulative and Toxic.
STOT	Specific Target Organ Toxicity.
vPvB	very Persistent very Bio Accumulative.


16.2. SDS report status:

This document has been compiled by Novus Sealing Pty Ltd on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS'). It is based on information concerning the product, which has been provided to Novus Sealing Pty Ltd by the manufacturer and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While Novus Sealing Pty Ltd has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Novus Sealing Pty Ltd accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

All information and recommendations contained in this publication are based on the present level of knowledge and experience. Since the conditions of use are beyond our control, users must satisfy themselves that products are suitable for the intended processes and applications. No warranty is given or implied in respect of information and recommendations or that any use of the products will not infringe rights belonging to other parties. Our most current General Sales Conditions shall apply.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. This SDS has been transcribed into Info safe NOHSC format from an original issued by the manufacturer on the date shown. DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued.

Document title:	SDS novus™ Bolt –Lube.
Revision:	0.1.
Total page:	08.
Date created:	23/11/2016.
Next review date ;	23/11/2021.
Prepared by:	Lubna Ibrahim. QOSHE Manager.
Approved by:	Danny Flynn. General Manager. Signature: 
Status:	Approved and issued.
Issue authority:	Novus Sealing Pty Ltd General Manger and QOSHE department.
Document Infor no.:	SDSNBL-2116-REV01.

END OF SAFE DATA SHEET.