CRC

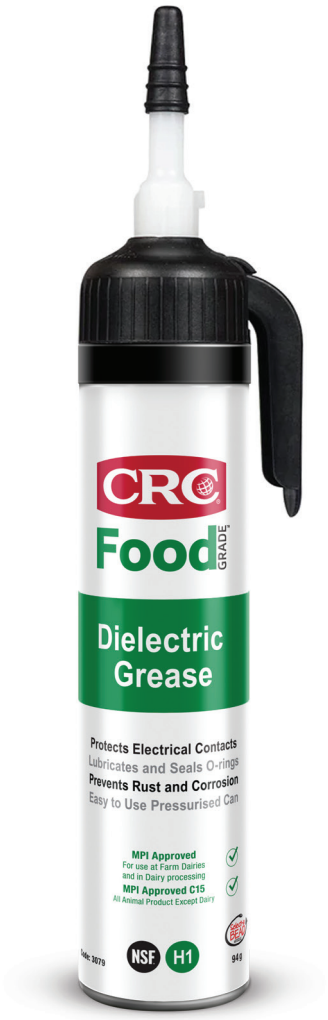
GREENLIGHT™

FOOD SAFETY PROGRAM

ASSISTS AUDIT COMPLIANCE

FOOD GRADE DIELECTRIC GREASE

PRODUCT CODE: 3079



This document contains:

- SDS
- TDS
- MPI Approvals
- Allergen Certificate
- NSF Certificate

MPI Approved
For use at Farm Dairies and in Dairy processing

MPI Approved C15
All Animal Product Except Dairy

NSF H1

Scan for Product Compliance

Disclaimer: Safety Data Sheet (SDS) is valid for 5 years only from the date of issue. MPI certification is also valid for 5 years from date of issue. Please scan QR code to validate this product's latest documents.

CRC DIELECTRIC GREASE Select-a-bead

CRC Industries (CRC Industries New Zealand)

Chemwatch Hazard Alert Code: **1**

Chemwatch: **5271-83**
Version No: **4.1**
Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: **10/07/2024**
Print Date: **02/10/2024**
S.GHS.NZL.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	CRC DIELECTRIC GREASE Select-a-bead
Chemical Name	Not Applicable
Synonyms	3079, 5106(Food Grade)
Proper shipping name	AEROSOLS
Chemical formula	Not Applicable
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Packaged in an Aerosol dispenser, 94g. Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	**CRC Industries (CRC Industries New Zealand)**
Address	10 Highbrook Drive East Tamaki Auckland New Zealand
Telephone	+64 9 272 2700
Fax	+64 9 274 9696
Website	www.crc.co.nz
Email	- No EMAL ID NEEDED for NZ - JACK

Emergency telephone number

Association / Organisation	**CRC Industries (CRC Industries New Zealand)**	**CHEMWATCH EMERGENCY RESPONSE (24/7)**
Emergency telephone numbers	NZ Poisons Centre 0800 POISON (0800 764 766)	+64 800 700 112
Other emergency telephone numbers	111 (NZ Emergency Services)	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification [1]	Aerosols Category 3
Legend:	***1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI***
Determined by Chemwatch using GHS/HSNO criteria	Not Available

Label elements

Hazard pictogram(s)	Not Applicable

Signal word	**Warning**

Hazard statement(s)

H229	Pressurised container: May burst if heated.

Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
63148-62-9	>60	polydimethylsiloxane
68611-44-9	<10	silica amorphous, fumed
7727-37-9.	<10	nitrogen

Legend:	***1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; * EU IOELVs available***

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	If aerosols come in contact with the eyes: ▸ Immediately hold the eyelids apart and flush the eye with fresh running water. ▸ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. ▸ Seek medical attention without delay; if pain persists or recurs seek medical attention. ▸ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If solids or aerosol mists are deposited upon the skin: ▸ Flush skin and hair with running water (and soap if available). ▸ Remove any adhering solids with industrial skin cleansing cream. ▸ **DO NOT** use solvents. ▸ Seek medical attention in the event of irritation.
Inhalation	If aerosols, fumes or combustion products are inhaled: ▸ Remove to fresh air. ▸ Lay patient down. Keep warm and rested. ▸ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. ▸ If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. ▸ Transport to hospital, or doctor.
Ingestion	Not considered a normal route of entry.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

SMALL FIRE:

- Water spray, dry chemical or CO2

LARGE FIRE:

- Water spray or fog.

Special hazards arising from the substrate or mixture

Fire Incompatibility	- Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting	- Alert Fire Brigade and tell them location and nature of hazard. - May be violently or explosively reactive. - Wear breathing apparatus plus protective gloves. - Prevent, by any means available, spillage from entering drains or water course. --- GENERAL --- - Alert Fire Brigade and tell them location and nature of hazard. - Wear breathing apparatus and protective gloves. - Fight fire from a safe distance, with adequate cover. - Use water delivered as a fine spray to control fire and cool adjacent area.
Fire/Explosion Hazard	- Non combustible. - Not considered to be a significant fire risk. - Heating may cause expansion or decomposition leading to violent rupture of containers. - Aerosol cans may explode on exposure to naked flames. Combustion products include: carbon dioxide (CO2) nitrogen oxides (NOx) silicon dioxide (SiO2) metal oxides other pyrolysis products typical of burning organic material. **CARE**: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	- Clean up all spills immediately. - Avoid breathing vapours and contact with skin and eyes. - Wear protective clothing, impervious gloves and safety glasses. - Shut off all possible sources of ignition and increase ventilation.
Major Spills	- Clear area of personnel and move upwind. - Alert Fire Brigade and tell them location and nature of hazard. - May be violently or explosively reactive. - Wear breathing apparatus plus protective gloves.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	- Avoid all personal contact, including inhalation. - Wear protective clothing when risk of exposure occurs. - Use in a well-ventilated area. - Prevent concentration in hollows and sumps.
Other information	- Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can

Conditions for safe storage, including any incompatibilities

Suitable container	- Aerosol dispenser. - Check that containers are clearly labelled.
Storage incompatibility	- Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	silica amorphous, fumed	Inhalable dust (not otherwise classified)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	silica amorphous, fumed	Respirable dust (not otherwise classified)	3 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	nitrogen	Nitrogen	Not Available	Not Available	Not Available	(sa) - Simple asphyxiant

Ingredient	Original IDLH	Revised IDLH
polydimethylsiloxane	Not Available	Not Available
silica amorphous, fumed	Not Available	Not Available
nitrogen	Not Available	Not Available

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.
Individual protection measures, such as personal protective equipment	
Eye and face protection	‣ No special equipment for minor exposure i.e. when handling small quantities. ‣ OTHERWISE: For potentially moderate or heavy exposures: ‣ Safety glasses with side shields. ‣ NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them.
Skin protection	See Hand protection below
Hands/feet protection	‣ No special equipment needed when handling small quantities. ‣ OTHERWISE: ‣ For potentially moderate exposures: ‣ Wear general protective gloves, eg. light weight rubber gloves. ‣ For potentially heavy exposures: ‣ Wear chemical protective gloves, eg. PVC. and safety footwear.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. **OTHERWISE:** ‣ Overalls. ‣ Skin cleansing cream. ‣ Eyewash unit.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face
A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

‣ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear gel with no odour; does not mix with water.

Physical state	Compressed Gas	**Relative density (Water = 1)**	Not Available
Odour	Not Available	**Partition coefficient n-octanol / water**	Not Available
Odour threshold	Not Available	**Auto-ignition temperature (°C)**	Not Applicable
pH (as supplied)	Not Applicable	**Decomposition temperature (°C)**	Not Available
Melting point / freezing point (°C)	Not Available	**Viscosity (cSt)**	350
Initial boiling point and boiling range (°C)	Not Available	**Molecular weight (g/mol)**	Not Applicable
Flash point (°C)	Not Available	**Taste**	Not Available
Evaporation rate	Not Available	**Explosive properties**	Not Available
Flammability	Not Available	**Oxidising properties**	Not Available
Upper Explosive Limit (%)	Not Applicable	**Surface Tension (dyn/cm or mN/m)**	Not Available
Lower Explosive Limit (%)	Not Applicable	**Volatile Component (%vol)**	Not Available
Vapour pressure (kPa)	Not Available	**Gas group**	Not Available
Solubility in water	Immiscible	**pH as a solution (1%)**	Not Applicable
Vapour density (Air = 1)	Not Available	**VOC g/L**	Not Available
Heat of Combustion (kJ/g)	Not Available	**Ignition Distance (cm)**	Not Available
Flame Height (cm)	Not Available	**Flame Duration (s)**	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	**Enclosed Space Ignition Deflagration Density (g/m3)**	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	- Elevated temperatures. - Presence of open flame. - Product is considered stable. - Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. The vapour is discomforting **WARNING**:Intentional misuse by concentrating/inhaling contents may be lethal. Not normally a hazard due to non-volatile nature of product

Ingestion	Ingestion may result in nausea, abdominal irritation, pain and vomiting Not normally a hazard due to physical form of product. Not considered to be a risk because of the extreme volatility of the gas.
Skin Contact	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Spray mist may produce discomfort
Eye	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
Chronic	Main route of exposure to the gas in the workplace is by inhalation. Amorphous silicas generally are less hazardous than crystalline silicas, but the former can be converted to the latter on heating and subsequent cooling. Inhalation of dusts containing crystalline silicas may lead to silicosis, a disabling lung disease that may take years to develop. **WARNING**: Aerosol containers may present pressure related hazards.

CRC DIELECTRIC GREASE Select-a-bead	**TOXICITY**	**IRRITATION**
	Not Available	Not Available
polydimethylsiloxane	**TOXICITY**	**IRRITATION**
	Dermal (rabbit) LD50: >3000 mg/kg[2]	Eye (rabbit): 100 mg/1h - mild
	Oral (Rat) LD50: >35000 mg/kg[2]	
silica amorphous, fumed	**TOXICITY**	**IRRITATION**
	Inhalation (Rat) LC50: 0.45 mg/L4h[2]	Not Available
	Oral (Rat) LD50: >5000 mg/kg[2]	
nitrogen	**TOXICITY**	**IRRITATION**
	Not Available	Not Available

Legend:	***1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances***

POLYDIMETHYLSILOXANE	No toxic response noted during 90 day subchronic inhalation toxicity studies The no observable effect level is 450 mg/m3. Non-irritating and non-sensitising in human patch test. [Xerox]* Siloxanes may impair liver and hormonal function, as well as the lung and kidney. They have not been found to be irritating to the skin and eyes. They may potentially cause cancer (tumours of the womb in females) and may cause impaired fertility or infertility. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
SILICA AMORPHOUS, FUMED	For silica amorphous: Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d. In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show little evidence of adverse health effects due to SAS. Repeated exposure (without personal protection) may cause mechanical irritation of the eye and drying/cracking of the skin. When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. For silane, dichloro-methyl-, reaction products with silica: Acute oral toxicity is very low for treated silica. Animals who inhaled these substances recovered from inflammatory changes in the airway when exposure ended. Repeated inhalation in animals caused inflammation and scarring of the lungs with enlarged lymph nodes. Treated silica does not cause mutations or genetic damage and has not been shown to cause cancer.
NITROGEN	No significant acute toxicological data identified in literature search.

Acute Toxicity	✗	**Carcinogenicity**	✗
Skin Irritation/Corrosion	✗	**Reproductivity**	✗
Serious Eye Damage/Irritation	✗	**STOT - Single Exposure**	✗
Respiratory or Skin sensitisation	✗	**STOT - Repeated Exposure**	✗
Mutagenicity	✗	**Aspiration Hazard**	✗

Legend: ✗ ***– Data either not available or does not fill the criteria for classification***
✔ ***– Data available to make classification***

SECTION 12 Ecological information

Toxicity

CRC DIELECTRIC GREASE Select-a-bead	**Endpoint**	**Test Duration (hr)**	**Species**	**Value**	**Source**
	Not Available	Not Available	Not Available	Not Available	Not Available
polydimethylsiloxane	**Endpoint**	**Test Duration (hr)**	**Species**	**Value**	**Source**
	Not Available	Not Available	Not Available	Not Available	Not Available
silica amorphous, fumed	**Endpoint**	**Test Duration (hr)**	**Species**	**Value**	**Source**
	NOEC(ECx)	24h	Crustacea	>=10000mg/l	1
nitrogen	**Endpoint**	**Test Duration (hr)**	**Species**	**Value**	**Source**
	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	***Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data***				

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal	▸ **DO NOT** allow wash water from cleaning or process equipment to enter drains. ▸ It may be necessary to collect all wash water for treatment before disposal. ▸ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. ▸ Where in doubt contact the responsible authority. ▸ Consult State Land Waste Management Authority for disposal. ▸ Discharge contents of damaged aerosol cans at an approved site. ▸ Allow small quantities to evaporate. ▸ **DO NOT** incinerate or puncture aerosol cans.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Not applicable as substance/ material is non hazardous.

SECTION 14 Transport information

Labels Required

	
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (UN)

14.1. **UN number or ID number**	1950
14.2. **UN proper shipping name**	AEROSOLS
14.3. **Transport hazard class(es)**	Class: 2.2 Subsidiary Hazard: Not Applicable
14.4. **Packing group**	Not Applicable
14.5. **Environmental hazard**	Not Applicable
14.6. **Special precautions for user**	Special provisions: 63; 190; 277; 327; 344; 381 Limited quantity: 1000ml

Air transport (ICAO-IATA / DGR)

14.1. **UN number**	1950
14.2. **UN proper shipping name**	Aerosols, non-flammable
14.3. **Transport hazard class(es)**	ICAO/IATA Class: 2.2 ICAO / IATA Subsidiary Hazard: Not Applicable ERG Code: 2L
14.4. **Packing group**	Not Applicable
14.5. **Environmental hazard**	Not Applicable
14.6. **Special precautions for user**	Special provisions: A98 A145 A167 A802 Cargo Only Packing Instructions: 203 Cargo Only Maximum Qty / Pack: 150 kg Passenger and Cargo Packing Instructions: 203 Passenger and Cargo Maximum Qty / Pack: 75 kg Passenger and Cargo Limited Quantity Packing Instructions: Y203 Passenger and Cargo Limited Maximum Qty / Pack: 30 kg G

Sea transport (IMDG-Code / GGVSee)

14.1. **UN number**	1950
14.2. **UN proper shipping name**	AEROSOLS
14.3. **Transport hazard class(es)**	IMDG Class: 2.2 IMDG Subsidiary Hazard: Not Applicable
14.4. **Packing group**	Not Applicable
14.5 **Environmental hazard**	Not Applicable
14.6. **Special precautions for user**	EMS Number: F-D , S-U Special provisions: 63 190 277 327 344 381 959 Limited Quantities: 1000 ml

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
polydimethylsiloxane	Not Available
silica amorphous, fumed	Not Available
nitrogen	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
polydimethylsiloxane	Not Available
silica amorphous, fumed	Not Available
nitrogen	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002519	Aerosols (Subsidiary Hazard) Group Standard 2017

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

polydimethylsiloxane is found on the following regulatory lists

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data
New Zealand Inventory of Chemicals (NZIoC)

silica amorphous, fumed is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data
New Zealand Inventory of Chemicals (NZIoC)
New Zealand Workplace Exposure Standards (WES)

nitrogen is found on the following regulatory lists

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data
New Zealand Inventory of Chemicals (NZIoC)
New Zealand Workplace Exposure Standards (WES)

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantities
Not Applicable	Not Applicable

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (polydimethylsiloxane; silica amorphous, fumed; nitrogen)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (polydimethylsiloxane)
Japan - ENCS	No (silica amorphous, fumed; nitrogen)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	***Yes = All CAS declared ingredients are on the inventory*** ***No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.***

SECTION 16 Other information

Revision Date	10/07/2024
Initial Date	28/09/2017

SDS Version Summary

Version	Date of Update	Sections Updated
3.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
4.1	10/07/2024	Expiration. Review and Update

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

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. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

- PC—TWA: Permissible Concentration-Time Weighted Average
- PC—STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration

- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances

- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

CRC GREENLIGHT™ FOOD SAFETY PROGRAM
ASSISTS AUDIT COMPLIANCE

TECHNICAL DATA SHEET

CRC Food Grade Dielectric Grease

CRC Food Grade Dielectric Grease Select-A-Bead is a pressurised, non-curing silicone compound used for electrical sealing, lubricating, protecting and insulating. It seals connectors exposed to the elements and maintains electrical performance during rain, fog, and salt spray.

It is temperature resistant and will not harden, freeze, dry or melt due to temperature fluctuations. It prevents dirt, moisture, rust and oil from penetrating.

The nozzle allows for easy control of silicone bead width, with a unique double piston pressurized system allowing for smooth, uniform dispensing from start to finish. MPI approved.

Item Code: 3079 **Pack Size: 94g Tube**

Features and Benefits

- **Ready to use:** No additional mixing or chemical additives required
- **Maximum protection from corrosion**
- **Protects electrical contacts:** Ensures electrical insulation and proper conductivity
- **Lubricates and Seals O-Rings**
- **Silicone-based:** Lubricates, keeps contacts clean, reduces wear
- **Easy to use pressurised can:** Variable 3-20mm bead width
- **MPI Approved C15** for all animal product except dairy
- **MPI Approved** for use at farm dairies and in dairy processing
- **NSF H1 Registered for incidental food contact**

Typical Properties and Characteristics

Flash Point	> 300°C
Odour	Low
Appearance	Opaque white liquid
Solubility	Insoluble
Base Type	Silicone
Vapour Density	> Air
Propellant	Nitrogen

Type of film	Non-curing silicone paste
Dielectric Strength	>450 volts/mil
Temperature Range	-56.7°C to +204.4°C
Plastic Safe	Safe on most plastics (test small area)

CRC GREENLIGHT™ FOOD SAFETY PROGRAM
ASSISTS AUDIT COMPLIANCE

TECHNICAL DATA SHEET

CRC Food Grade Dielectric Grease

Directions

1. Do not apply while equipement is energized.
2. Shut off power supply. Be sure all stored power is drained from system and allow hot surfaces to cool before using this product.
3. Clean surfaces, connectors and contacts with a CRC Precision Cleaner.
4. Remove cap, pull tab, then adjust cap following min/max arrow to control grease width. Press handle to apply.
5. Squeeze trigger to dispense product. Coat areas requiring lubrication or protection.
6. If necessary, repeat application until desired thickness is attained.

Special Precautions

General:
Pressurized container; may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not puncture, incinerate or store above 50°C. Do not place in direct sunlight or near any heat source.

Dispose of contents/container in accordance with relevant regulations. All unused product should be disposed of in conformance with local and hazard regulations, do not contaminate water supply.

Refer to **Safety Data Sheet** for more details.

Product Warranty or Shelf Life

CRC offers a conditional warranty on this product for the period of 5 years from the date of manufacture.

Contact Information

CRC Industries NZ
10 Highbrook Dr, East Tamaki
Auckland, New Zealand

www.crc.co.nz
PH: 09 272 2700
Email: info.nz@crcind.com

Technical Data Sheet *Version 10/2024*

25 June 2024

Natasha Gill
CRC Industries New Zealand
PO Box 204267
Highbrook
Manukau 2161

Dear Natasha,

APPROVAL OF DAIRY MAINTENANCE COMPOUND FOR USE IN FARM DAIRIES AND FOR USE IN DAIRY PROCESSING

The new product **Food Grade Dielectric Grease** has been considered in conjunction with the type of validation information provided and has been determined to satisfy the requirements of regulations 12, 13, 14, 53 and 247 of the Animal Products Regulations 2021 and regulation 43 of the Raw Milk for Sale Consumers Regulations 2015, when used in accordance with the label.

The product **Food Grade Dielectric Grease** has been assessed and is approved for use in farm dairies and for use in dairy premises when used in accordance with label instructions.

This approval of the compound for use in farm dairies and dairy processing is subject to the following conditions:

1. To be used in accordance with label instructions as a lubricant.
2. Not to be used on food contact surfaces.
3. The method of use must ensure that milk, food, packaging or food contact surfaces will not be adversely affected.
4. Only sufficient lubricant to achieve the required effect is to be used.
5. Should incidental contact with food contact surfaces occur, surfaces must be cleaned and thoroughly rinsed to ensure no residue remains.

Where this approval is stated on the product label, the statement “MPI approved for use in farm dairies” and “MPI approved for use in dairy processing” is to be used, unless an alternative is agreed in writing by MPI.

Should this product be determined to be unsatisfactory when used as recommended by the manufacturer or an agent of the manufacturer at the stated dosage, MPI may withdraw this approval.

Review

This approval of a dairy maintenance compound for use in farm dairies and dairy processing is valid for a maximum period of 5 years but is subject to periodic review and may be withdrawn at any time should the Director-General determine that there is sufficient evidence that the product is not fit for the purpose for which this approval applies. You will be issued a letter prior to the review date, which is set at **25 June 2029** but you are responsible for ensuring that this review is completed if you wish to retain MPI approval of the above dairy maintenance compound.

Yours faithfully,

Shaleen Narayan
Manager Approvals
Acting under delegated authority
Ministry for Primary Industries

New Zealand Food Safety
Ministry for Primary Industries
Charles Fergusson Building, 34-38 Bowen St, Pipitea
PO Box 2526 | Wellington 6140 | +64-4-894-2550
approvals@mpi.govt.nz
www.mpi.govt.nz

26 June 2023

CRC Industries New Zealand
PO Box 204267
Highbrook
Manukau 2161

Trade Name: CRC Food Grade Dielectric Grease
Description: Lubricant
Code: C 15

Approvals:

This compound is approved for use in premises processing all animal product except dairy, operating under the Animal Products Act regime.

This approval is under the following regulations, subject to the conditions stated in this approval:

1. Regulation 247 of the Animal Products Regulations 2021 and Regulation 18 of the Animal Products (Regulated Control Scheme – Limited Processing Fishing Vessels) Regulations 2001

Conditions:

1. This is permitted to be used during processing of food to lubricate moving parts of equipment whereby the lubricated surface is either an integral part of the food contact surface, or is contiguous with the food contact surface and contamination could result from bearing seal leakage.
2. The equipment is to be maintained, including the application of lubricants, according to the specifications of the equipment manufacturer.
3. Only sufficient lubricant is to be used to achieve the desired effect.
4. When used in the manner permitted, all lubricated surfaces are to be maintained according to requirements for sanitation of food contact surfaces.
5. When used in any other manner that may result in incidental contamination of a food surface, the surface is to be cleaned by washing to ensure no free substance remains that could be transferred to food being processed.

This approval may be withdrawn at any time due to unapproved directions for use, or unsatisfactory performance, or any change in product formulation. The Ministry for Primary Industries (New Zealand Food Safety) must be notified if the holder of this approval wishes to transfer their products to another entity.

The product must be used in accordance with the manufacturer's instructions and specifications. The label may include a statement to the effect that the product is approved for use in premises registered under the Animal Products Act regime. Any statements made, however, must include the approval code and must be limited to the following unless otherwise specified:

MPI Approved C 15 (All animal product except dairy)

Note: Former NZFSA statements must be removed from your labels.

New Zealand Food Safety
Ministry for Primary Industries
Charles Fergusson Building, 34-38 Bowen St, Pipitea
PO Box 2526 | Wellington | 04 894 2550
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This approval must not be used as a Ministry for Primary Industries (MPI) endorsement of any claim made for the product by the manufacturer.

This approval will remain valid until 26 June 2028 unless the approval is revoked by notice in writing at an earlier stage.

Any queries regarding this approval should be directed to MPI Approvals by either telephone on 04 894 2550 or by e-mail at approvals@mpi.govt.nz.

Yours sincerely,

Maree Zinzley
Manager Approvals
Regulatory Systems & Support

Nonfood Compounds Program Listed

July 15, 2015

Ms. Suzanne Zefferi
CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
United States

RE: CRC® Food Grade Di-Electric Grease
Category Code: H1
NSF Registration No. 151608

Dear Ms. Suzanne Zefferi:

NSF has processed the application for Registration of **CRC® Food Grade Di-Electric Grease** to the NSF International Registration Guidelines for Proprietary Substances and Nonfood Compounds (2013), which are available upon request by contacting NonFood@nsf.org. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements including FDA 21 CFR for appropriate use, ingredient and labeling review.

This product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is a potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compound must be removed from the equipment surface by washing or wiping, as required to leave the surface effectively free of any substance which could be transferred to food being processed.

NSF Registration of this product is current when the NSF Registration Number, Category Code, and Registration Mark appear on the NSF-approved product label, and the Registered product name is included in the current NSF White Book Listing of Nonfood Compounds at the NSF website (www.nsfwhitebook.org).

NSF Listing of all Registered Nonfood compounds by NSF International is not an endorsement of those compounds, or of any performance or efficacy claims made by the manufacturer.

Registration status may be verified at any time via the NSF website, at www.nsfwhitebook.org. Changes in formulation or label, without the prior written consent of NSF, will void Registration, and will supersede the on-line listing. Please contact your NSF Project Manager or nonfood@nsf.org if you have any questions or concerns pertaining to this letter.

Sincerely,

Carolyn Gillilland
NSF Nonfood Compounds Registration Program

Company No: N02027

CRC Industries, Inc.
Global Headquarters: 800 Enterprise Road, Suite 101 | Horsham, PA 19044 | 215.674.4300
Manufacturing and R&D Center: 885 Louis Drive | Warminster, PA 18974 | 215.674.4300

ALLERGEN CERTIFICATE

Date: **30-Jun-22**

Product Name: **Food Grade Dielectric Grease - 3.3 oz**

Product Code: **No. 03085 (Item# 1003353)**

CRC has evaluated the above product against a list of internationally recognized and regulated allergens. The following information is provided to assist our customers in complying with allergen safety programs.

Allergen	Present in Product	Present on Same Production Line	Present in Facility
Dairy / Milk	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Soy	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Peanut	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Egg	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Tree Nut (almonds, brazil nuts, cashews, hazelnuts, macadamia nuts, pecans, pine nuts, pistachio nuts and walnuts)	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Sesame Seed	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Mustard Seed	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Gluten (wheat, barley, oats, rye)	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Seafood (fish, crustacean and molluscan shellfish)	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Sulfites	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Buckwheat	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Celery	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Lupin	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Bee pollen / Propolis	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Royal Jelly	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Mango	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Peach	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Pork	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Tomato	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No
Latex (natural rubber)	☐Yes / ☒No	☐Yes / ☒No	☐Yes / ☒No

This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. For more information, please contact our Technical Service Dept at 800-521-3168.

CRC INDUSTRIES, INC.

Michelle Rudnick

Michelle Rudnick
Global Director of Regulatory Affairs