

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **CRL Novus #2 Plastic Polish**
 Product Code: NOV2
 Product Use: Clean and Restore Plastic Surfaces
 Restriction of use: Refer to Section 15

New Zealand Supplier: **Glasscorp Limited**
 Address: **124 Bush Road**
Albany
Auckland
New Zealand

Telephone: 09 415 6338
 Fax Number: 09 415 6339
 Website: www.glasscorp.co.nz

Emergency Telephone: 09 415 6338 or 0800 764 766 (National Poison Line)

Glasscorp date of issue: 21 July 2020

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Cleaning Products (subsidiary) – HSR002530

Pictograms:



Irritant

Chronic

Signal Word: **Warning**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
6.1E (Resp)	H335	May cause respiratory irritation.	STOT SE 3
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2

Prevention Code	Prevention Statement
P103	Read label before use.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective clothing as detailed in Section 8.

Response code	Response Statement
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P362	Take off contaminated clothing and wash before re-use.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal Code	Disposal Statement
P501	Triple rinse and dispose of according to local regulations

Section 3. Composition / Information on Ingredients

Hazardous Ingredients	Cas Number	Weight
Odorless Mineral Spirits	64742-48-9	7 - 13
Amorphous Silicas/ Diatomaceous Earths	68855-54-9	5 - 10
Mixture	61790-53-2	1 - 5
Polydimethyl Sitoxane	83148-62-9	4 - 8
Morpholine	110-91-8	1 - 5
Oleic Acid	112-80-1	1 - 5
Crystalline Silicas	14464-46-1	0 - 5
Mixture	14808-60-7	0 - 0.1
Water	7732-18-5	To bal

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	Take off contaminated clothing and wash before re-use. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/ attention.
If Swallowed	Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Call a POISON CENTER or doctor/physician if you feel unwell.
If Inhaled	Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Most important symptoms and effects, both acute and delayed

Symptoms:	Refer to Section 11 for full details.
Swallowed:	Not applicable.
Inhaled:	May cause respiratory irritation.
Eyes:	Causes serious eye irritation.
Skin:	Causes skin irritation.
Chronic:	Skin disorders, respiratory conditions, and central nervous system conditions may be aggravated by prolonged overexposure to this product.

Notes to Doctor: Treat symptoms and eliminate overexposure.

Section 5. Fire Fighting Measures
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Hazard Type	Non Flammable
Hazards from products	When involved in a fire, this material may decompose and produce irritating vapors and toxic gases (including silicon, nitrogen and carbon oxides).
Suitable Extinguishing media	Use extinguishing material suitable to the surrounding fire, including halon, carbon dioxide, dry chemical, ABC class.
Precautions for firefighters and special protective clothing	Structural firefighters must wear self-contained breathing apparatus and full protective equipment. Chemical resistant clothing may be necessary. Move containers from fire area if it can be done without risk to personnel. Water spray can be used to cool fire-exposed containers. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas. Rinse contaminated equipment thoroughly with soapy water before returning such equipment to service.
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Equipment and emergency procedures

Evacuate personnel to safe areas. Ensure adequate ventilation. Eliminate all sources of ignition before cleanup begins. Use non-sparking tools. The atmosphere must have levels of components lower than those listed in Section 8, (Exposure Controls and Personal Protective Equipment) if applicable, and have at least 19.5 percent oxygen before personnel can be allowed into the area without Self-Contained Breathing Apparatus (SCBA).

Environmental precautions

Avoid release to the environment. Run-off water may be contaminated by other materials and should be contained to prevent possible environmental damage.

Methods and materials for containment and cleaning up**Small Spills:**

Absorb spilled material with polypads or other suitable, non-reacting sorbent, avoiding generation of aerosols, wearing gloves, goggles and apron. Place spilled material in appropriate container for disposal, sealing tightly. Remove all residue before decontamination of spill area.

Large Spills:

Access to the spill area should be restricted. Spread should be limited by diking spill area. Absorb spilled liquid with polypads or other suitable absorbent materials.

All Spills:

Place all spill residue in a double plastic bag or other containment and seal. Decontaminate the area thoroughly. Do not mix with wastes from other materials. Dispose of according to Section 13.

Section 7. Handling and Storage
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Precautions for safe handling:

- Read label before use.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- All employees who handle this material should be trained to handle it safely.
- Keep container tightly closed when not in use.
- As with all chemicals, avoid getting this product ON YOU or IN YOU.
- Do not eat, drink, smoke, or apply cosmetics while handling this product.
- Avoid breathing vapors or mists generated by this product.
- Remove contaminated clothing immediately.
- Wear protective clothing as detailed in Section 8.

Precautions for safe storage:

- Keep out of reach of children.
- Store away from incompatible materials listed in Section 10.
- Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible.
- Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.
- Storage areas should be made of fire resistant materials.
- Empty containers may contain residual product; therefore, empty containers should be handled with care.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	mg/m ³	STEL ppm	mg/m ³
Morpholine (skin) [110-91-8]	20	71	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11TH EDITION

Engineering Controls:

Use with adequate ventilation. Use a mechanical fan or vent area to outside. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits provided in this section, if applicable. Use a non-sparking, grounded, explosion-proof ventilation system separate from other exhaust ventilation systems. Exhaust system in manner consistent with prevention of release to atmosphere. An eyewash and safety shower should be readily accessible.

Personal Protection Equipment



Eyes	Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations to assist in equipment selection.
Hands and Skin	Wear butyl rubber, nitrile or similar gloves for routine industrial use. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this SDS. Use body protection appropriate for task. Safety shoes are recommended when handling cylinders. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical

	hazards, use foot protection. If necessary, refer to appropriate regulations to assist in equipment selection.
Respiratory	<p>Maintain the Oxygen level above 19.5% in the workplace and exposure limits below levels given earlier in this section, if applicable. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-face piece pressure/demand SCBA or a full face piece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard. If necessary, use only respiratory protection authorized in appropriate regulations to assist in equipment selection. The following are NIOSH respiratory protection guidelines for crystalline silica, in the event that this product creates residual dusts. Also provided are guidelines for Morpholine. These guidelines are given to assist in selection of respiratory protective equipment.</p> <p>CRYSTALLINE SILICA CONCENTRATION RESPIRATORY PROTECTION</p> <p>Up to 0.5 mg/m³: Any Air-Purifying Respirator with a high-efficiency particulate filter.</p> <p>Up to 1.25 mg/m³: Any Powered, Air-Purifying Respirator (PAPA) with a high-efficiency particulate filter, or any Supplied-Air Respirator (SAR) operated in a continuous-flow mode.</p> <p>Up to 2.5 mg/m³: Any Air-Purifying, Full-Face piece Respirator with a high-efficiency particulate filter, or any PAPA with a tight fitting face piece and a high-efficiency particulate filter.</p> <p>Up to 25 mg/m³: Any SAR operated in a pressure-demand or other positive-pressure mode.</p> <p>Emergency or Planned Entry into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full face piece and is operated in a pressure-demand or other positive-pressure mode, or any SAR that has a full face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary SCBA operated in pressure-demand or other positive-pressure mode.</p> <p>Escape: Any Air-Purifying, Full-Face piece Respirator with a high-efficiency particulate filter, or any appropriate escape-type, SCBA.</p> <p>MORPHOLINE CONCENTRATION RESPIRATORY PROTECTION</p> <p>Up to 500 ppm: Any Supplied-Air Respirator (SAR) operated in a continuous-flow mode, or any Powered Air-Purifying Respirator (PAPR) with organic vapor cartridge(s), or any Air-Purifying Full-Face piece Respirator equipped with organic vapor cartridge(s), or any Air-Purifying, Full-Face piece Respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any PAPR with a tight-fitting face piece and organic vapor cartridge(s), or any Self-contained Breathing Apparatus (SCBA) with a full face piece, or any SAR with a full face piece.</p> <p>Up to 1, 400 ppm Any Supplied-Air Respirator (SAR) that has a full face piece and is operated in a pressure-demand or other positive pressure mode.</p> <p>Emergency or Planned Entry into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full face piece and is operated in a pressure-demand or other positive-pressure mode, or any SAR that has a full-face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in</p>

	pressure-demand or other positive-pressure mode. Escape: Any Air-Purifying, Full-Face piece Respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any appropriate escape-type, SCBA.
General	When using do not eat, drink or smoke, Wash hands before eating, drinking or smoking, Avoid contact with skin, eyes or clothing. Eyewash/safety shower are always advisable when working with chemicals.

Section 9 Physical and Chemical Properties

Appearance	Opaque, tan viscous liquid
Odour	Hydrocarbon. The odor is a distinguishing characteristic of this product.
Odour Threshold	Not available
pH	8.5 - 9
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	>93.3 °C
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Density	Not available
Specific Gravity (23°C, water, 1)	1.01
Soluble in water	Soluble in water, except for inorganic ingredients.
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	7000-9000 (cP)
Solid content (%)	Not available
VOC	Not available
Evaporation Rate	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable at ambient temperatures and atmospheric pressures.
Possibility of hazardous reactions:	None known.
Conditions to Avoid	Exposure to water, moist air, and ultraviolet light, incompatible chemicals, high temperatures.
Incompatible Materials	Strong oxidizers, strong acids, strong bases.
Hazardous Decomposition Products	Combustion: Silicon, nitrogen and carbon oxides.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Ingestion is not anticipated to be a likely route of exposure to this product in the workplace. If this material is swallowed, it may cause headache, nausea, and vomiting. While not anticipated to occur, due to product viscosity, aspiration of this liquid may cause life-
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	threatening lung damage.
Dermal	Not applicable.
Inhalation	Inhalation is not anticipated to be a significant route of overexposure to this product. If mists of this product are inhaled, Irritation of the nose and other tissues of the upper respiratory system may occur. Inhalation of high concentrations of vapors (as may occur if this material is used in a poorly ventilated area), can result in symptoms of central nervous system depression (e.g., headaches, dizziness, nausea). Symptoms are generally alleviated upon breathing fresh air. This product may contain Crystalline Silica, which is known to cause cancer by inhalation. If this product is used in a manner that creates dust (such as application of product with a mechanical polishing wheel), use of respiratory protection is required.
Eye	Causes serious eye irritation, reddening and discomfort
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Skin disorders, respiratory conditions, and central nervous system conditions may be aggravated by prolonged overexposure to this product.
Other	Components, including Crystalline Silica, are known or suspected carcinogens. This product contains compounds that may damage the lungs through acute and chronic inhalation exposure.
Health Effects Or Risks From Exposure:	Acute: This material may be irritating to the eyes, skin, and mucous membranes. Inhalation of high concentrations of this product's vapors can cause dizziness, headaches, and nausea. While unlikely, if swallowed, aspiration of this liquid may cause life-threatening lung damage. Chronic: Repeated skin contact can cause dermatitis (inflammation of the skin, resulting in redness and dryness). Contains compounds with known or suspected carcinogenic effects (see "Other Health Effects").
Target Organs	Skin, eyes, respiratory system, central nervous system. Chronic: Skin, respiratory system.

Toxicity for components as per NZ CCID www.epa.govt.co.nz

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Morpholine (110-91-8)	90 mg/kg (Guinea Pig)	500 mg/kg (rabbit)	0.66 mg/l/4h Vapour (mouse)

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Product:	
Persistence and degradability	This product has not been tested for persistence or biodegradability. The following information is available for some components.
Bioaccumulation	This product has not been tested for bio-accumulation

	potential. The following is information for some components.
Mobility in Soil	This product has not been tested for mobility in soil.
Other adverse effects	No data available
Environmental Exposure Controls	Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

The following are aquatic toxic data for some components of this product.

MORPHOLINE:

LC. (bluegill) 96 hours = 350 mg/L

LC. (daphnia) 24 hours = 100 mg/L

EC. (Daphnia magna) 24 hours = 119 mg/L (immobilization)

OLEIC ACID:

LC. (Pimephales promelas Fathead minnow, juvenile 4-8 wk, length 1.1-3.1 cm) 96hours = 205,000 pg/L; Conditions: freshwater, static, 18-22°C, dissolved oxygen < or =4.0 mg/L

Section 13. Disposal Considerations

Disposal Method:

Triple rinse and dispose according to Local Regulations.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information

EPA Approval Code: Cleaning Products (subsidiary) – HSR002530

HSNO Classification: 6.1E(Resp), 6.3A, 6.4A, 6.9B

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	Not required
Emergency Response Plan (Schedule 5)	Not required
Secondary Containment (Schedule 5)	Not required
Tracking (Schedule 26)	Not required
Restriction of use	Only for intended use.

Section 16 Other Information

Glossary

AWC	Aggregate water capacity.
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.

TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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