Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

SECTION 1: Identification

1.1. Product identifier
3M™ Glass Polishing Compound (PN60150)

Product Identification Numbers
60-0900-0596-2

1.2. Recommended use and restrictions on use

Recommended use
Abrasive Product, Glass Polishing. For industrial/occupational use only. Not for consumer sale or use.

1.3. Supplier's details
ADDRESS: 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301 Petaling, Jaya, Selangor
Telephone: 03-7884 2888
E Mail: 3mmyehsr@mmm.com
Website: www.3M.com.my

1.4. Emergency telephone number
+60 03-7884 2888

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
Not classified as hazardous according to Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

2.2. Label elements
Signal word
Not applicable

Symbols
Not applicable

Pictograms
Not applicable

2.3. Other hazards
None known

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	70 - 80
Cerium Oxide (CeO2)	1306-38-3	15 - 30
Lanthanum Trioxide	1312-81-8	< 5
(Hydroxyethyl)Cellulose	9004-62-0	< 2
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	< 0.05

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:
If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:
Do not induce vomiting. Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
None known.	During Combustion

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Observe precautions from other sections.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid breathing of dust created by sanding, grinding or machining. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities
Keep from freezing.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

8.2. Exposure controls

8.2.1. Engineering controls
Provide appropriate local exhaust ventilation for sanding, grinding or machining. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety Glasses with side shields

Skin/hand protection
No chemical protective gloves are required.

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Specific Physical Form:	Dispersion
Color	White
Odor	Slight Solvent
Odor threshold	*No Data Available*
pH	6 - 9
Melting point/Freezing point	*Not Applicable*
Boiling point/Initial boiling point/Boiling range	100 ºC
Flash Point	No flash point
Evaporation rate	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Vapor Pressure	2,306.5 Pa [@ 20 ºC]
Relative Vapor Density	*No Data Available*
Density	1.17 - 1.3 g/cm3
Relative Density	1.17 - 1.3
Water solubility	Moderate
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*Not Applicable*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	*No Data Available*
Volatile Organic Compounds	0.0013 % [*Details:*Calculated]
Percent volatile	78 % [*Details:*Calculated including water]
VOC Less H2O & Exempt Solvents	0.036 g/l [*Details:*Calculated]
Molecular weight	*No Data Available*

Particle Characteristics	*Not Applicable*

SECTION 10: Stability and reactivity

10.1. Reactivity
This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:
Dust from grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:
Dust created by grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:
No known health effects.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Lanthanum Trioxide	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Lanthanum Trioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.3 mg/l

Lanthanum Trioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
(Hydroxyethyl)Cellulose	Dermal		LD50 estimated to be > 5,000 mg/kg
(Hydroxyethyl)Cellulose	Ingestion	Rat	LD50 > 5,000 mg/kg
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	Rat	LD50 > 2,000 mg/kg
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.588 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	Rat	LD50 193 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Lanthanum Trioxide	Rabbit	No significant irritation
(Hydroxyethyl)Cellulose	Human and animal	No significant irritation
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Lanthanum Trioxide	Rabbit	Mild irritant
(Hydroxyethyl)Cellulose	Rabbit	No significant irritation
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Rabbit	Corrosive

Sensitization:

Skin Sensitization

Name	Species	Value
Lanthanum Trioxide	Guinea pig	Not classified
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Guinea pig	Not classified

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
2-BROMO-2-NITRO-1,3-PROPANEDIOL	In vivo	Not mutagenic
2-BROMO-2-NITRO-1,3-PROPANEDIOL	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	Not classified for male reproduction	Rat	NOAEL 150 mg/kg/day	2 generation
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	Not classified for female reproduction	Rat	NOAEL 50	2 generation

				mg/kg/day	
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	Not classified for development	Rabbit	NOAEL 10 mg/kg/day	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not Available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	heart | skin | endocrine system | gastrointestinal tract | hematopoietic system | liver | immune system | nervous system | eyes | kidney and/or bladder	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	gastrointestinal tract | immune system | kidney and/or bladder | heart | endocrine system | hematopoietic system | liver | nervous system | eyes | respiratory system	Not classified	Rat	NOAEL 160 mg/kg/day	2 years

Aspiration Hazard
For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:
Not chronically toxic to aquatic life by GHS criteria.

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Cerium Oxide (CeO2)	1306-38-3	Green algae	Endpoint not reached	72 hours	EL50	>100 mg/l
Cerium Oxide (CeO2)	1306-38-3	Activated sludge	Experimental	3 hours	EC50	>1,003.8 mg/l
Cerium Oxide (CeO2)	1306-38-3	Fathead Minnow	Experimental	96 hours	LL50	>100 mg/l
Cerium Oxide (CeO2)	1306-38-3	Water flea	Experimental	48 hours	LL50	>100 mg/l
Cerium Oxide (CeO2)	1306-38-3	Water flea	Experimental	21 days	NOEL	100 mg/l
Lanthanum Trioxide	1312-81-8	Water flea	Experimental	48 hours	EC50	>100 mg/l
Lanthanum Trioxide	1312-81-8	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l
Lanthanum Trioxide	1312-81-8	Water flea	Experimental	21 days	NOEC	100 mg/l
(Hydroxyethyl)Cellulose	9004-62-0	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Bluegill	Experimental	96 hours	LC50	11 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Diatom	Experimental	72 hours	ErC50	0.178 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Green algae	Experimental	96 hours	ErC50	0.02 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Mysid Shrimp	Experimental	96 hours	LC50	4.3 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Sheepshead Minnow	Experimental	96 hours	LC50	57.6 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Water flea	Experimental	48 hours	EC50	1.4 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Diatom	Experimental	72 hours	NOEC	0.052 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Green algae	Experimental	96 hours	NOEL	0.012 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Rainbow Trout	Experimental	49 days	NOEC	1.94 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Water flea	Experimental	21 days	NOEC	0.27 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Activated sludge	Experimental	150 minutes	EC50	43 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Bobwhite quail	Experimental	5 hours	LD50	4,488 mg/kg (Dry Weight)
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Redworm	Experimental	14 days	LC50	>500 mg/kg (Dry Weight)
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Redworm	Experimental	56 days	NOEC	62.5 mg/kg (Dry Weight)
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Soil microbes	Experimental	28 days	EC50	78.1 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Cerium Oxide (CeO2)	1306-38-3	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Lanthanum Trioxide	1312-81-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A
(Hydroxyethyl)Cellulose	9004-62-0	Data not availbl-insufficient	N/A	N/A	N/A	N/A
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Biodegradation	28 days	Carbon dioxide evolution	20 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Mod. Sturm or CO2
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Aquatic Inherent Biodegrad.	45 days	Dissolv. Organic Carbon Deplet	50 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Biodegradation	1 hours	Percent degraded	99 %degraded	OECD 314 Simu Biodeg WW
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Photolysis		Photolytic half-life(in water)	24 hours (t 1/2)	
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	2.4 hours (t 1/2)	OECD 111 Hydrolysis func of pH

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Cerium Oxide (CeO2)	1306-38-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Lanthanum Trioxide	1312-81-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
(Hydroxyethyl)Cellulose	9004-62-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	0.15	OECD 107 log Kow shke flsk mtd

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other adverse effects
No information available

SECTION 13: Disposal considerations

13.1. Disposal methods

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

SECTION 14: Transport Information

Not hazardous for transportation.

Marine Transport (IMDG)

UN Number: None assigned.
Proper Shipping Name: None assigned.
Technical Name: None assigned.
Hazard Class/Division: None assigned.
Subsidiary Risk: None assigned.
Packing Group: None assigned.
Limited Quantity: None assigned.
Marine Pollutant: None assigned.
Marine Pollutant Technical Name: None assigned.
Other Dangerous Goods Descriptions:
None assigned.

Air Transport (IATA)

UN Number: None assigned.
Proper Shipping Name: None assigned.
Technical Name: None assigned.
Hazard Class/Division: None assigned.
Subsidiary Risk: None assigned.
Packing Group: None assigned.
Limited Quantity: None assigned.
Marine Pollutant: None assigned.
Marine Pollutant Technical Name: None assigned.
Other Dangerous Goods Descriptions:
None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

SECTION 15: Regulatory information

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

Global inventory status
Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

DISCLAIMER: The information in this Safety Data Sheet (SDS) is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this SDS or use of the product in

combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

3M Malaysia SDSs are available at www.3M.com.my