

SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER:	MEP FILMS		
ADDRESS:	Building 51, 885 Mountain Highway, Bayswater, 3153 VIC		
Trade Name:	HYDRO G9+ SURFACE COATING – 50mL		
TELEPHONE:	03 8809 2700	EMAIL:	info@mepfilms.com.au
AH EMERGENCY TELEPHONE:	1300 774 575 in Australia (M-F 7am – 7pm)	Synonym:	CERAQ9
Substance:	Solvent based coating	Product Use:	Industrial surface coating
Creation Date:	April 2023	Revision Date:	April 2028

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture

Dangerous Goods	Classified as LIMITED QUANTITY DANGEROUS GOODS by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".
GHS Classification	Acute Toxicity - Inhalation: Category 4 Aspiration Hazard: Category 1 Eye Irritation: Category 2A Flammable Liquids: Category 2 Skin Irritation: Category 2
Poisons Schedule	S6

Label elements

GHS label pictograms	
Signal word	DANGER

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Precautionary statement(s): General

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary statement(s): Prevention

P210	Keep away from heat and sparks - No smoking.
P233	Keep container tightly closed.
P240	Ground container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust, vapours and spray.
P264	Wash contaminated skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing and eye protection.

Precautionary statement(s): Response	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331	Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P332+P313	If skin irritation occurs: Get medical advice.
P362	Take off contaminated clothing and wash before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice.
P370+P378	In case of fire: Use alcohol resistant foam, water spray or fog, carbon dioxide, dry chemical powder for extinction.
Precautionary statement(s): Storage	
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
Precautionary statement(s): Disposal	
P501	Dispose of contents and container in accordance with local regulations.
Note	
IMPORTANT	This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS		
Ingredients:	CAS Number:	Proportion (%w/w):
Ligroine	8032-32-4	< 40
2-Butoxyethanol	111-76-2	< 20
Silica crystalline - quartz	14808-60-7	< 15
Silicon Carbide	409-21-2	< 10
Ingredients determined to be non-hazardous at the concentrations used (including water)	various	balance

SECTION 4 – FIRST AID MEASURES	
Inhalation	Remove person to fresh air away from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Obtain medical attention if symptoms occur.
Skin contact	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
Ingestion	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek immediate medical advice (e.g. doctor).
Advice to Doctor	Treat symptomatically.
First Aid Facilities	Eye wash station. Normal washroom facilities.

SECTION 5 – FIRE FIGHTING MEASURES

Fire and Explosion Hazards	Highly flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard. Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including oxides of nitrogen, hydrogen fluoride, hydrogen chloride, chloride, carbon monoxide and carbon dioxide.
Extinguishing Media	Alcohol resistant foam, water spray or fog, carbon dioxide, dry chemical powder. Do not use water jet.
Fire Fighting	Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses
Flash Point	>20°C
Hazchem	<ul style="list-style-type: none"> • 3YE

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible, contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place it into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.
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SECTION 7 – HANDLING AND STORAGE

Handling	Wear appropriate personal protective equipment and clothing to prevent exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Open containers carefully as they may be under pressure. Keep containers tightly closed. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities
Storage	Store in a cool, dry, well-ventilated area away from sources of ignition, foodstuffs, clothing and incompatible materials such as oxidising agents. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits	<p>National Occupational Exposure Limits, as published by Safe Work Australia:</p> <p>Time-weighted Average (TWA): None established for product. For ingredients:</p> <ul style="list-style-type: none"> ● 2-Butoxyethanol: 20ppm, 96.9 mg/m³ ● Quartz : 0.05 mg/m³ (note: Carc 1A) ● Silicon Carbide 10 mg/m³ <p>Short Term Exposure Limit (STEL): None established for product. For ingredients:</p> <ul style="list-style-type: none"> ● 2-Butoxyethanol: 50ppm, 242 mg/m³ <p>TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight- hour working day, for a five-day week. STEL(Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday. 'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur. Carc.IA: Known to have carcinogenic potential for humans.</p>
Ventilation	<p>This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NIS 60079.10.1 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.</p>
Personal Protective Equipment	<p>Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. The following protective equipment should be available;</p>
Eye Protection 	<p>Safety glasses, chemical goggles or face shield should be used for handling concentrate in quantity, cleaning up spills, decanting, etc. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.</p>
Hand Protection 	<p>Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.</p>
Body Protection 	<p>Suitable protective workwear, e.g. rubber or plastic apron, sleeves, boots and cotton overalls buttoned at neck and wrist are recommended. Chemical resistant apron is recommended where large quantities are handled.</p>
Respirator	<p>If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.</p>

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Non-viscous liquid	Colour	Not available
Odour	Solvent	Specific Gravity	0.75 – 0.90 @ 25 °C
Boiling Point	Not available	Freezing Point	Not available
Vapour Pressure	Not available	Vapour Density	Not available
Flash Point	>21°C	Flammable Limits	none
Water Solubility	Insoluble	pH	Not applicable

SECTION 10 – STABILITY AND REACTIVITY

Reactivity	Stable at normal temperatures and pressure. Reacts with strong oxidizing agents.
Conditions to Avoid	Heat, open flames, direct sunlight, and other sources of ignition.
Incompatibilities	Strong oxidizing agents.
Hazardous Decomposition	Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including hydrogen fluoride, hydrogen chloride, chloride, carbon dioxide and carbon monoxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Inhalation	Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.
Skin contact	Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.
Eye contact	Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness
Ingestion	May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause severe pulmonary injury that may lead to death. May cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
Chronic exposure	No information available.
Toxicology Information	Not toxic, based on ingredient calculated values.
Carcinogen Status	
IARC	<p>Not considered to be a carcinogenic hazard.</p> <p>2-Butoxyethanol is listed as a Group 3: Not classifiable as carcinogenic to humans according to International Agency for Research on Cancer (IARC).</p> <p>Silicon Carbide is listed as a Group 2A: Probably carcinogenic to humans according to International Agency for Research on Cancer (IARC).</p> <p>This product contains crystalline silica. No exposure to free respirable crystalline silica is anticipated during normal use of this product as silica is bound in the liquid/paste. It should be noted, however, that respirable crystalline silica has been listed as a Group 1 human carcinogen by the IARC. Inhalation of respirable silica may cause cancer, silicosis or other serious delayed lung injury. Grinding or machining of coated materials may release silica. Use approved dust respirator when grinding, sanding or machining the dried items.</p>
Respiratory Sensitisation	Not expected to be a respiratory sensitizer.
Skin Sensitisation	Not expected to be a skin sensitizer.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	Not expected to cause toxicity to a specific target organ.
STOT-repeated exposure	Not expected to cause toxicity to a specific target organ.
Aspiration Hazard	Expected to be an aspiration hazard.

SECTION 12 – ECOLOGICAL INFORMATION

Eco-toxicity	No information
Persistence and degradability	No information.
Bio accumulative potential	No information.
Mobility in soil	No information.
Other adverse effects	Not available
Environmental Protection	Do not discharge this material into waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

	Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.
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SECTION 14 – TRANSPORT INFORMATION

Land Transport (ADG) Classified as **LIMITED QUANTITY DANGEROUS GOODS** by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".



UN Number	1993
Proper Shipping Name	Flammable liquids, N.O.S (Contains Ligroine) LIMITED QUANTITY
Class	3
HAZCHEM Code	•3YE
Packing Group	II
ERG	14
Limited Quantity	1L
Marine Pollutant	No
Note	<p>Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG) The legislation defines dangerous goods as being packed in limited quantities if:</p> <p>(a) The goods are packed in accordance with Chapter 3.4 of the ADG Code; and</p> <p>(b) The quantity of dangerous goods in each inner packaging or in each article does not exceed the quantity specified in, or referred to, in column 7a of the Dangerous Goods List for those goods.</p> <p>General requirements applicable to all packaging used for dangerous goods packed in limited quantities: Dangerous goods transported in limited quantities must be packed in packages that meet the following criteria:</p> <p>a) packaging must be designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods; and</p> <p>b) all packaging must meet the provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8; and</p> <p>c) all packaging must meet the construction requirements of 6.1.4, 6.2.1.2 and 6.2.4; and</p> <p>d) for articles of Division 1.4, Compatibility Group S, packaging must also fully comply with the provisions of 4.1.5.</p> <p>This product is packed in inner packaging of 50 ml(< 1 L). The outer packaging is less than 20 kg. This product can be transported as "limited quantity" once meet all general requirements stated above.</p>

Marine Transport (IMO/IMDG): Classified as **LIMITED QUANTITY DANGEROUS GOODS** by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.



UN Number	1993
Proper Shipping Name	Flammable liquids, N.O.S (Contains Ligroine) LIMITED QUANTITY
Class	3
HAZCHEM Code	•3YE
Packing Group	II
EMS	EMS :F-E, S-E
Limited Quantity	1L
Marine Pollutant	No
Special Provision	274

Air Transport (ICAO/IATA): Classified as **LIMITED QUANTITY DANGEROUS GOODS** by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



UN Number	1993
Proper Shipping Name	Flammable liquids, N.O.S (Contains Ligroine) LIMITED QUANTITY
Class	3
HAZCHEM Code	•3YE
Packing Group	II
Packaging Instructions	353 (passenger & cargo). 364 (cargo only)
Limited Quantity	1L
Special Provision	A3

SECTION 15 – REGULATORY INFORMATION

GHS Classification	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
SUSMP	S6
AICS	All ingredients present on AICS

SECTION 16 – OTHER INFORMATION

Issue Date	April 2023
Version Number	V3 Updated format
Abbreviations and acronyms	<p>ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail.</p> <p>AICS: Australian Inventory of Chemical Substances.</p> <p>CAS Number: Chemical Abstracts Service Registry Number.</p> <p>GHS: Globally Harmonized System of Classification and Labelling of Chemicals</p> <p>HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services.</p> <p>HCIS: Hazardous Chemical Information System</p> <p>SWA: Safe Work Australia.</p> <p>SDS: Safety Data Sheet</p> <p>STEL: Short Term Exposure Limit.</p> <p>SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.</p> <p>TWA: Time Weighted Average.</p> <p>UN Number: United Nations Number.</p>



SAFETY DATA SHEET

Product Name: CERA-Q9 CERAMIC COATING WITH GRAPHENE– 50mL

Date of Issue: APR 2023

Page 8 of Total 8

Literature references	Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (Safe Work Australia) GHS Hazardous Chemical Information List (Safe Work Australia) Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. Global Harmonized System of Classification and Labelling of Chemicals (GHS) “Australian Exposure Standards”. Safe Work Australia Australian Code for The Transport of Dangerous Goods by Road and Rail Standard for the Uniform Scheduling of Medicines and Poisons Safety Data Sheets – individual raw materials – Suppliers HCIS – Hazardous Chemical Information System – National Safe Work Australia Data Base.
Disclaimer	This SDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.

End of SDS