

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

SECTION 1. IDENTIFICATION

Product name : QQ620 MICROMAX™ ENCAPSULANT PASTE

Product code : 000000000027045969

Manufacturer or supplier's details

Company name of supplier : Celanese Ltd. Irving Texas
Address : 222 West Las Colinas Boulevard Suite 900N
Irving TX 75039
Telephone : '+1 972-443-4000
Emergency telephone number : DOMESTIC NORTH AMERICA: 800-424-9300
INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)

Recommended use of the chemical and restrictions on use

Recommended use : For industrial use only.
Paste for electronic industry



SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 4
Skin irritation : Category 2
Eye irritation : Category 2A
Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Respiratory system)

Other hazards

None known.

GHS label elements

Hazard pictograms :  

Signal word : Warning

Hazard statements : H227 Combustible liquid.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H373 May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist or vapours.

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/
face protection/ hearing protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water
for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/ atten-
tion.
P337 + P313 If eye irritation persists: Get medical advice/ atten-
tion.
P362 + P364 Take off contaminated clothing and wash it before
reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alco-
hol-resistant foam to extinguish.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-
posal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Terpineol	8000-41-7	$\geq 20 - < 30$
Aluminum oxide	1344-28-1	$\geq 10 - < 20$
Silica, vitreous	60676-86-0	$\geq 1 - < 10$

Glass or Ceramic ingredient(s)		50 - 60%
Silicon, Aluminum, Boron		

The specific chemical identity and/or exact percentage (concentration) of composition has been with-
held as a trade secret.

SECTION 4. FIRST AID MEASURES

If inhaled : If inhaled, remove to fresh air.
If breathing is difficult, give oxygen.

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

In case of skin contact	: If not breathing, give artificial respiration. Get medical attention. Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
In case of eye contact	: Immediately flush eyes for at least 15 minutes. Get medical attention.
If swallowed	: If swallowed Rinse mouth with water. Call a physician or poison control centre immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Most important symptoms and effects, both acute and delayed	: Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure if inhaled.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry sand Dry chemical Alcohol-resistant foam
Specific hazards during fire-fighting	: Hazardous decomposition products formed under fire conditions. (see also section 10) Avoid breathing decomposition products.
Further information	: Evacuate personnel to safe areas. Stop spill/release if it can be done with minimal risk. Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for firefighters	: Exposure to decomposition products may be a hazard to health. Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment. Dispose of in accordance with local regulations.
Environmental precautions	: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Clean contaminated floors and objects thoroughly while observing environmental regulations.
Methods and materials for	: Contain spill.

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

containment and cleaning up Soak up with inert absorbent material.
Collect and contain contaminated absorbent and dike material for disposal.
Keep in suitable, closed containers for disposal.
Ventilate the area.
Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Avoid formation of dust and aerosols.
Keep away from heat and sources of ignition.

Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes.
Use only with adequate ventilation/personal protection.
Keep container closed when not in use.
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep away from sources of ignition - No smoking.
Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.
Keep container closed when not in use.
Do not reuse empty container.

Further information on storage stability : Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum oxide	1344-28-1	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminium)	ACGIH
Silica, vitreous	60676-86-0	TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 /	OSHA Z-3

QQ620 MICROMAX™ ENCAPSULANT PASTEVersion
8.1Revision Date:
05-20-2025SDS Number:
300000000888Date of last issue: 04-12-2024
Date of first issue: 01-29-2024

			%SiO ₂ (Silica)	
		TWA (Respirable dust)	0.05 mg/m ³ (Silica)	NIOSH REL
		TWA	6 mg/m ³ (Silica)	NIOSH REL
Silicon	7440-21-3	TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (Total dust)	10 mg/m ³	OSHA P0
		TWA (respirable dust fraction)	5 mg/m ³	OSHA P0
Aluminum	7429-90-5	TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³ (Aluminium)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³ (Aluminium)	OSHA Z-1
		TWA (Total dust)	15 mg/m ³ (Aluminium)	OSHA P0
		TWA (respirable dust fraction)	5 mg/m ³ (Aluminium)	OSHA P0

Engineering measures : Local exhaust or a laboratory hood should be used when handling the materials.
Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Respiratory protection : Provide adequate ventilation.
No personal respiratory protective equipment normally required.
Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.
Persons performing maintenance or repairs on exhaust system equipment (e.g. ducts) may need to use respirators and protective clothing to prevent exposure to any accumulated residues.

Hand protection

Material : Impervious gloves

Remarks : Gloves must be inspected prior to use. Gloves should be

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

discarded and replaced if there is any indication of degradation or chemical breakthrough. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Wear safety glasses with side shields.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Lightweight protective clothing
Safety shoes

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with skin, eyes and clothing.
Contaminated work clothing should not be allowed out of the workplace.
Remove contaminated clothing and protective equipment before entering eating areas.
Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Colour : green

Odour : solvent-like

pH : No data available Substance/mixture is non-polar/aprotic.
substance/mixture is non-polar/aprotic

Flash point : 199 °F / 93 °C
Method: closed cup

Density : 2.2 g/cm³ (68 °F / 20 °C)

Solubility(ies)
Water solubility : slightly soluble (68 °F / 20 °C)

Viscosity
Viscosity, dynamic : > 100 Pa.s (77 °F / 25 °C)

Viscosity, kinematic : > 20.5 mm²/s (104 °F / 40 °C)
estimated

SECTION 10. STABILITY AND REACTIVITY

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

Possibility of hazardous reactions	: Polymerization will not occur. Stable at normal temperatures and storage conditions.
Conditions to avoid	: None reasonably foreseeable.
Incompatible materials	: Acids
Hazardous decomposition products	: No decomposition if stored and applied as directed.
	Under fire conditions: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Metal oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
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Acute inhalation toxicity	: Acute toxicity estimate: 48.43 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
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Components:**Terpineol:**

Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity
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Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
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Aluminum oxide:

Acute oral toxicity	: LD50 (Rat): > 10,000 mg/kg Method: OECD Test Guideline 401
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Acute inhalation toxicity	: LC50 (Rat): > 5.09 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Remarks: Information given is based on data obtained from similar substances.
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Silica, vitreous:

Acute oral toxicity	: LD50 (Rat): > 7,500 mg/kg
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QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

Silicon:

Acute oral toxicity	: LD50 (Rat): 3,160 mg/kg
Acute inhalation toxicity	: Remarks: No data available
Acute dermal toxicity	: Remarks: No data available

Aluminum:

Acute oral toxicity	: Remarks: No data available
Acute inhalation toxicity	: Remarks: Effects of breathing high concentration of respirable particles may include: Respiratory tract damage Lung damage
Acute dermal toxicity	: Remarks: No data available

Boron:

Acute oral toxicity	: LD50 (Rat): 650 mg/kg
Acute inhalation toxicity	: Remarks: Due to its physical properties, there is no potential for adverse effects.
Acute dermal toxicity	: Remarks: Due to its physical properties, there is no potential for adverse effects.

Skin corrosion/irritation

Causes skin irritation.

Components:**Terpineol:**

Species	: Rabbit
Assessment	: Irritating to skin.
Method	: OECD Test Guideline 404
Result	: Skin irritation

Aluminum oxide:

Species	: Rabbit
Assessment	: No skin irritation
Method	: OECD Test Guideline 404
Result	: No skin irritation

Silica, vitreous:

Species	: Guinea pig
Assessment	: Irritating to skin.
Result	: Severe skin irritation

Silicon:

Remarks	: No data available
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QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

Aluminum:

Remarks : No data available

Boron:

Remarks : non-irritant

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:**Terpineol:**

Species	: animals (unspecified species)
Result	: Eye irritation
Assessment	: Irritating to eyes.
Method	: OECD Test Guideline 405

Aluminum oxide:

Species	: Rabbit
Result	: No eye irritation
Assessment	: No eye irritation

Silica, vitreous:

Species	: Rabbit
Result	: Eye irritation
Assessment	: Irritating to eyes.

Silicon:

Species	: Rabbit
Remarks	: slight irritation

Aluminum:

Remarks : No data available

Boron:

Remarks : non-irritant

Respiratory or skin sensitisation**Skin sensitisation**

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Components:**Terpineol:**

Test Type	: Maximisation Test
Species	: Guinea pig
Assessment	: Not a skin sensitizer.

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

Aluminum oxide:

Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Result : Does not cause skin sensitisation.

Silica, vitreous:

Species : Human
Assessment : Does not cause skin sensitisation.
Result : Does not cause skin sensitisation.

Silicon:

Remarks : No data available

Aluminum:

Remarks : No data available

Boron:

Remarks : Not a skin sensitizer.

Germ cell mutagenicity

Not classified due to lack of data.

Components:**Terpineol:**

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Evidence suggests this substance does not cause genetic damage in animals.

Aluminum oxide:

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects., Did not cause genetic damage in cultured mammalian cells.

Carcinogenicity

Not classified due to lack of data.

Components:**Terpineol:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen., Overall weight of evidence indicates that the substance is not carcinogenic.

Aluminum oxide:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen., Overall weight of evidence indicates that the substance is not carcinogenic.

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	3000000000888	Date of first issue: 01-29-2024

Carcinogenicity - Assessment	: Not classifiable as a human carcinogen., Overall weight of evidence indicates that the substance is not carcinogenic.
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OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
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Not classified due to lack of data.

Reproductive toxicity - Assessment	: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
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Reproductive toxicity - Assessment	: No toxicity to reproduction, Animal testing showed no reproductive toxicity., Information given is based on data obtained from similar substances. Animal testing showed no developmental toxicity., Information given is based on data obtained from similar substances.
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Reproductive toxicity - Assessment	: Animal testing showed no reproductive toxicity., Information given is based on data obtained from similar substances.
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Not classified due to lack of data.

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

Components:**Terpineol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aluminum oxide:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity**Components:****Terpineol:**

Species : Rat
Application Route : Oral
Remarks : No toxicologically significant effects were found.

Aluminum oxide:

Species : Rat
NOAEL : 141 mg/kg
Application Route : Ingestion
Exposure time : 28 d
Method : see user defined free text
Remarks : No toxicologically significant effects were found.
Information given is based on data obtained from similar substances.

Species : Rat
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 90 d
Method : OECD Test Guideline 413
Remarks : No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.

Silica, vitreous:

Species : Rat
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 12 Months
Target Organs : Respiratory system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Remarks : Respiratory effects

Silicon:

Remarks : No data available

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

Aluminum:

Species	:	Human
Application Route	:	Inhalation
Remarks	:	Respiratory tract damage Lung damage

Boron:

Remarks	:	Due to its physical properties, there is no potential for adverse effects.
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Aspiration toxicity

Not classified due to lack of data.

Components:**Aluminum oxide:**

No aspiration toxicity classification

Silica, vitreous:

No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Terpineol:**

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 62 - 80 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
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Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 73 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
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Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 68 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
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EbC50 (Pseudokirchneriella subcapitata (green algae)): 17 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Aluminum oxide:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): Exposure time: 96 h Remarks: Aquatic toxicity is unlikely due to low solubility. Information given is based on data obtained from similar substances.
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QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue:
8.1	05-20-2025	300000000888	04-12-2024
			Date of first issue: 01-29-2024

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): Exposure time: 48 h
Remarks: Aquatic toxicity is unlikely due to low solubility.
Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Aquatic toxicity is unlikely due to low solubility.
Information given is based on data obtained from similar substances.

NOEC (Pseudokirchneriella subcapitata (green algae)): Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Aquatic toxicity is unlikely due to low solubility.

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Silicon:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Aluminum:

Toxicity to fish : NOEC (Salmo trutta (brown trout)): > 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Boron:

Toxicity to fish : Remarks: This product has no known ecotoxicological effects.

Persistence and degradability**Components:**

Terpineol:

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

Biodegradability : Biodegradation: 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301
Remarks: Readily biodegradable.

Bioaccumulative potential**Components:****Terpineol:**

Bioaccumulation : Bioconcentration factor (BCF): 24.13
Remarks: Bioaccumulation is unlikely.

Aluminum oxide:

Bioaccumulation : Remarks: The substance has the potential to bioaccumulate.
Information given is based on data obtained from similar substances.

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : If recycling is not practicable, dispose of in compliance with local regulations.
Do not reuse empty container. Never place unused product down any indoor or out door drain.
Contaminated/not cleaned containers should be treated/handled like product waste. Dispose of container properly. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

National Regulations**49 CFR**

Not regulated as a dangerous good

Special precautions for user

Remarks : Regulated by DOT/49CFR as Combustible Liquid when transported in a bulk package (≥ 119 gallons(450 litres))., Not regulated by DOT in non-bulk package., Not regulated as a hazardous material by IATA., Not regulated by IMDG.

SECTION 15. REGULATORY INFORMATION**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Specific target organ toxicity (single or repeated exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Aluminum oxide	1344-28-1	$\geq 10 - < 20$ %
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California Prop. 65

WARNING: This product can expose you to chemicals including Silica, vitreous, Unspecified chromium (VI) compounds, which is/are known to the State of California to cause cancer, and Unspecified chromium (VI) compounds, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Regulated Carcinogens

Silica, vitreous	60676-86-0
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TSCA list

In compliance with TSCA-active Inventory requirements for commercial purposes.

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3	: USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

QQ620 MICROMAX™ ENCAPSULANT PASTE

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.1	05-20-2025	300000000888	Date of first issue: 01-29-2024

	eral Dusts
ACGIH / TWA	: 8-hour, time-weighted average
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	: 8-hour time weighted average
OSHA Z-1 / TWA	: 8-hour time weighted average
OSHA Z-3 / TWA	: 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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