



ATAC Thermal Acoustic Coating

Safety Data Sheet

according to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations, Canada Hazardous Products Regulations (HPR) / Règlement sur les produits dangereux (RPD)
Issue date: 9/11/2026 Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Name : ATAC Thermal Acoustic Coating

1.2. Other means of identification

No additional information available.

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Automotive interior heat and sound control.
Recommended use : Industrial use, restricted to professional users.
Restrictions on use : Any use not specified.

1.4. Supplier's details

Design Engineering Inc.
604 Moore Road
Avon Lake, Ohio 44012
Tel.: +1 (440) 930-7940 (Monday - Friday, 8:30 am - 5:00 pm Eastern)
Email: mikeb@designengineering.com
+1 (800) 255-3924 (7 days a week, 24 hours a day)

1.5. Emergency phone number

Emergency number : +1 (800) 255-3924 (7 days a week, 24 hours a day)

SECTION 2: Hazard Identification

2.1. Classification of the substance or mixture

GHS classification

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Full text of H statements : see section 16		

2.2. Label elements

GHS labeling

Hazard pictograms (GHS) :



Signal word (GHS) : Warning
Hazard statements (GHS) : H315 - Causes skin irritation
H319 - Causes serious eye irritation
Precautionary statements (GHS) : P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye and face protection.
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.
P332+P313 - If skin irritation occurs: Get medical attention, Get medical advice.
P337+P313 - If eye irritation persists: Get medical attention, Get medical advice.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available.

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2.4. Hazards not otherwise classified

No additional information available.

2.5. Unknown acute toxicity

82% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

86% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

82% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS classification
Gadolinium Doped Ceria	CAS-No.: 66402-68-4	7 – 10	Eye Irrit. 2A, H319
Titanium dioxide	CAS-No.: 13463-67-7	1 – 5	Carc. 2, H351
Mica	CAS-No.: 12001-26-2	1 – 5	Not classified
2-dimethylaminoethanol	CAS-No.: 108-01-0	0.1 – 1.5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314

Exact concentrations are withheld as trade secret.

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: If you feel unwell, seek medical advice. Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: Causes skin irritation. Causes eye irritation.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation.
Symptoms/effects after ingestion	: None under normal conditions. May cause nausea, vomiting, diarrhea, gastrointestinal irritation.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Absorb spillage to prevent material-damage. Notify authorities if product enters sewers or public waters.
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For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate unnecessary personnel. Ventilate spillage area.

For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to Section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.
Environmental precautions	: Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.

For further information refer to section 13, See Heading 8, Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Provide good ventilation in process area to prevent formation of vapor. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions	: Keep cool. Protect from sunlight. Keep away from heat, flame, and sources of ignition. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids. Strong oxidizing agents.
Storage temperature	: > 0 °C (> 32 °F)
Packaging materials	: Always store product in container of same material as original container.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Titanium dioxide (13463-67-7)	
USA - ACGIH® - Threshold Limit Values	
Local name	Titanium dioxide
ACGIH TWA (mg/m³)	0.2 mg/m³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m³ (Finescale particles. R - Repirable particulate matter)
Remark (ACGIH®)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Titanium dioxide (Total dust)
OSHA PEL TWA	15 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Mica (12001-26-2)	
USA - ACGIH® - Threshold Limit Values	
Local name	Mica
ACGIH TWA (mg/m³)	0.1 mg/m³ (R - Respirable particulate matter)
Remark (ACGIH®)	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Mica (Silicates (less than 1% crystalline silica))
OSHA PEL TWA	20 mppcf
Remark (OSHA)	Table Z-3. CAS No. source: eCFR Table Z-1.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	3 mg/m³

8.2. Appropriate engineering controls

Appropriate engineering controls : Industrial and professional. Perform risk assessment prior to use. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment. Avoid all unnecessary exposure.

Hand protection:
Wear protective gloves. Nitrile rubber gloves. Butyl rubber gloves.
Eye protection:
Chemical goggles or safety glasses.

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Skin and body protection:
Long sleeved protective clothing.
Respiratory protection:
None under normal use. If needed, use an air-purifying respirator with organic vapor cartridges and a dust/mist prefilter.

Other information:
Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid
Color	: Gray
Odor	: Pungent
Odor threshold	: No data available
pH	: 8 – 8.5
Melting point	: 0 °C (32 °F)
Freezing point	: No data available
Boiling point	: 100 °C (212 °F)
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: < 1
Flammability (solid, gas)	: Not flammable
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

Titanium dioxide	
Particle characteristics	No data available
Mica	
Particle characteristics	No data available
Gadolinium Doped Ceria	
Particle characteristics	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see Section 7). Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Likely routes of exposure : Skin and eye contact.

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

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Unknown acute toxicity (GHS)	82% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 86% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 82% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
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Titanium dioxide (13463-67-7)

LD50 Oral rat	> 5000 mg/kg
LC50 Inhalation rat	> 6.82 mg/l/4h

2-dimethylaminoethanol (108-01-0)

LD50 Oral rat	1187 mg/kg
LD50 Dermal rabbit	> 3000 mg/kg
LC50 Inhalation rat	6080 mg/m ³ 4 hours
ATE (oral)	1187 mg/kg body weight
ATE (dermal)	1100 mg/kg body weight
ATE (gases)	4500 ppmV/4h
ATE (vapors)	6.08 mg/l/4h
ATE (dust, mist)	1.5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
pH: 8 – 8.5

Gadolinium Doped Ceria (66402-68-4)

pH	Not applicable
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2-dimethylaminoethanol (108-01-0)

pH	10.5 – 11
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Serious eye damage/irritation : Causes serious eye irritation.
pH: 8 – 8.5

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Gadolinium Doped Ceria (66402-68-4)	
pH	Not applicable
2-dimethylaminoethanol (108-01-0)	
pH	10.5 – 11
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified. Titanium dioxide is bound within the product matrix and is not respirable; therefore, it is not expected to be carcinogenic.
Titanium dioxide (13463-67-7)	
NOAEL (chronic,oral,animal/male,2 years)	5 mg/kg body weight rat
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
ATAC Thermal Acoustic Coating	
Viscosity, kinematic	No data available
Titanium dioxide (13463-67-7)	
Viscosity, kinematic	No data available
Mica (12001-26-2)	
Viscosity, kinematic	No data available
Gadolinium Doped Ceria (66402-68-4)	
Viscosity, kinematic	No data available
2-dimethylaminoethanol (108-01-0)	
Viscosity, kinematic	No data available
Symptoms/effects	: Causes skin irritation. Causes eye irritation.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation.
Symptoms/effects after ingestion	: None under normal conditions. May cause nausea, vomiting, diarrhea, gastrointestinal irritation.

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Unknown hazards to the aquatic environment (GHS)	: Contains 66 % of components with unknown hazards to the aquatic environment
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

2-dimethylaminoethanol (108-01-0)	
LC50 fish	146.63 mg/l
EC50 crustacea	98.37 mg/l

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2-dimethylaminoethanol (108-01-0)	
EC50 other aquatic organisms	34.47 mg/l

12.2. Persistence and degradability

ATAC Thermal Acoustic Coating	
Persistence and degradability	Not established.
Titanium dioxide (13463-67-7)	
Persistence and degradability	Rapidly degradable.
Mica (12001-26-2)	
Persistence and degradability	inherently biodegradable.
Gadolinium Doped Ceria (66402-68-4)	
Persistence and degradability	Not established.
2-dimethylaminoethanol (108-01-0)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

ATAC Thermal Acoustic Coating	
Bioaccumulative potential	Not established.
Gadolinium Doped Ceria (66402-68-4)	
Bioaccumulative potential	Not established.
2-dimethylaminoethanol (108-01-0)	
Log Pow	-0.55
Bioaccumulative potential	This product is not bioaccumulating.

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Fluorinated greenhouse gases : No.
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : Do not re-use empty containers.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

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14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated.
Proper Shipping Name (TDG) : Not regulated.
Proper Shipping Name (IMDG) : Not regulated.
Proper Shipping Name (IATA) : Not regulated.

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not regulated.

TDG
Transport hazard class(es) (TDG) : Not regulated.

IMDG
Transport hazard class(es) (IMDG) : Not regulated.

IATA
Transport hazard class(es) (IATA) : Not regulated.

14.4. Packing group

Packing group (DOT) : Not regulated.
Packing group (TDG) : Not regulated.
Packing group (IMDG) : Not regulated.
Packing group (IATA) : Not regulated.

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT
Not regulated.

TDG
Not regulated.

IMDG
Not regulated.

IATA
Not regulated.

SECTION 15: Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Titanium dioxide	13463-67-7	Present	Active	
Mica	12001-26-2	Not present	-	
Gadolinium Doped Ceria	66402-68-4	Present	Active	
2-dimethylaminoethanol	108-01-0	Present	Active	

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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15.2. International regulations

CANADA

Titanium dioxide (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

Mica (12001-26-2)

Listed on the Canadian DSL (Domestic Substances List)

Gadolinium Doped Ceria (66402-68-4)

Listed on the Canadian DSL (Domestic Substances List)

2-dimethylaminoethanol (108-01-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

2-dimethylaminoethanol (108-01-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Titanium dioxide (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on Taiwan National Chemical Inventory
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Mica (12001-26-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Gadolinium Doped Ceria (66402-68-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

2-dimethylaminoethanol (108-01-0)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on Taiwan National Chemical Inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

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15.3. State regulations

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U.S. - California - Proposition 65 - Other information	The titanium dioxide in this product is bound and is not respirable. California Prop. 65 warnings are not required.

SECTION 16: Other information

according to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations, Canada Hazardous Products Regulations (HPR) / Règlement sur les produits dangereux (RPD)

Issue date	: 9/11/2026
Data sources	: Information from published literature and internal company data.
Other information	: None.

Full text of H-phrases	
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer.
Abbreviations and acronyms	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute Toxicity Estimate
CAS-No.	Chemical Abstract Service number
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
Log Pow	Partition coefficient n-octanol/water (Log Pow)
NOAEL	No-Observed Adverse Effect Level
OSHA	Occupational Safety Health Administration
TWA	Time Weighted Average

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.