



Ceramic Coating

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)
Issue date: 8/12/2025 Revision date: 6/10/2026 Version: 1.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : Ceramic Coating
Product code : 935

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Automotive Care Products.
Restrictions on use : None known

1.4. Supplier's details

3D International
20724 Centre Pointe Pkwy #1
Santa Clarita, CA 91350
T 888-999-7627

1.5. Emergency phone number

Emergency number : (Chemical Spills, Leaks, Fire, Exposure or Accident only)
CHEMTREC 1-800-424-9300 (in the US & Canada)
1-703-527-3887 (Outside the US)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquid, Category 2	H225	Highly flammable liquid and vapor.
Serious eye damage/eye irritation, Category 2A	H319	Causes serious eye irritation.
Skin sensitization, Category 1B	H317	May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351	Suspected of causing cancer (if inhaled).
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child (if inhaled).

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H225 - Highly flammable liquid and vapor
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H351 - Suspected of causing cancer (if inhaled).
H361 - Suspected of damaging fertility or the unborn child (if inhaled)

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Precautionary statements (GHS US) :

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 - Keep container tightly closed.
- P240 - Ground/Bond container and receiving equipment.
- P241 - Use explosion-proof electrical equipment.
- P242 - Use non-sparking tools.
- P243 - Take action to prevent static discharges.
- P261 - Avoid breathing mist, vapors.
- P264 - Wash hands thoroughly after handling.
- P272 - Contaminated work clothing must not be allowed out of the workplace.
- P280 - Wear eye protection, protective gloves.
- P308+P313 - If exposed or concerned: Get medical advice/attention.
- 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 or attention.
- P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
- P362+P364 - Take off contaminated clothing and wash it before reuse.
- P370+P378 - In case of fire: Use alcohol resistant foam, dry extinguishing powder, carbon dioxide (CO₂) to extinguish.
- P403+P235 - Store in a well-ventilated place. Keep cool.
- P405 - Store locked up.
- P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

Other hazards which do not result in classification : None known.

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

Mixtures

Name	Product identifier	Conc. (% w/w)
1-Chloro-4-trifluoromethylbenzene	CAS-No.: 98-56-6	60-80
Decamethylcyclopentasiloxane	CAS-No.: 541-02-6	5-10
Methyl acetate	CAS-No.: 79-20-9	5-10
Titanium tetrabutoxide	CAS-No.: 5593-70-4	0.1-1

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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

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SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: Move the affected person to fresh air. Get medical attention if symptoms occur.
First-aid measures after skin contact	: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.
First-aid measures after ingestion	: Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Inhalation	: May cause minor irritation to the respiratory tract and to other mucous membranes.
Skin	: Prolonged or repeated contact may cause skin to become dry. May cause an allergic skin reaction.
Eyes	: May cause moderate irritation to the eyes.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: This product may cause reproductive harm and/or developmental effects. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

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

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry chemical, CO ₂ , dry sand, or alcohol-resistant foam.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapour. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.
Explosion hazard	: Prolonged exposure to fire may cause containers to rupture/explode.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂). Chlorine. Fluorine. Hydrocarbon. Silicon dioxide. Formaldehyde.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing. Do not attempt to take action without suitable protective equipment.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Eliminate ignition sources. Avoid contact with eyes, skin and clothing. Wear suitable protective clothing. Do not touch or walk on the spilled product.
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For non-emergency personnel

Emergency procedures	: Keep unnecessary and unprotected personnel away from the spillage.
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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".
- Environmental precautions
- : Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

- For containment
- : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up
- : Use non-sparking tools. Absorb and/or contain spill with inert material, then place in suitable container.
- Other information
- : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling
- : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing mist, vapors. Ensure adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use.
- Hygiene measures
- : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including incompatibilities

- Storage conditions
- : Store in dry, cool, well-ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Protect from moisture. Store away from. Strong oxidizers. Keep container tightly closed.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Methyl acetate (79-20-9)	
USA - ACGIH® - Threshold Limit Values	
Local name	Methyl acetate
ACGIH® TLV® TWA	200 ppm
ACGIH® TLV® STEL	250 ppm
Remark (ACGIH®)	TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the retina)
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Methyl acetate
OSHA PEL (TWA)	610 mg/m³
	200 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

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8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize mist and/or vapor concentrations.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:

Wear suitable gloves resistant to chemical penetration. Contact your glove supplier for selection assistance.

Eye protection:

Wear safety goggles or other eye protection to prevent eye contact.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Not required for normal conditions of use. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear. Liquid.
Color	: clear
Odor	: Solvent-like
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 57.4 °C (Methyl acetate)
Flash point	: ≤ 27 °C
Flammability (solid, gas)	: Flammable liquid and vapor.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (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
Explosive properties	: None.
Oxidizing properties	: None.
Particle characteristics	: No data available

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

No additional information available

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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.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents. water. Moisture.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

1-Chloro-4-trifluoromethylbenzene (98-56-6)

LD50 oral rat	5546 mg/kg
LD50 dermal rabbit	> 3300 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 32.03 mg/l/4h

Methyl acetate (79-20-9)

LD50 oral rat	6482 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Vapors)	> 49.2 mg/l/4h

Decamethylcyclopentasiloxane (541-02-6)

LD50 oral rat	> 5000 mg/kg body weight (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg body weight (OECD 402 method)
LC50 Inhalation - Rat (Dust/Mist)	8.67 mg/l/4h

Titanium tetrabutoxide (5593-70-4)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	5300 mg/kg

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : May cause an allergic skin reaction.

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Germ cell mutagenicity : Not classified
Carcinogenicity : Suspected of causing cancer (if inhaled).

1-Chloro-4-trifluoromethylbenzene (98-56-6)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Suspected of damaging fertility or the unborn child (if inhaled).
STOT-single exposure : Not classified

Methyl acetate (79-20-9)	
STOT-single exposure	May cause drowsiness or dizziness.

Titanium tetrabutoxide (5593-70-4)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.

STOT-repeated exposure : Not classified

1-Chloro-4-trifluoromethylbenzene (98-56-6)	
LOAEL (oral, rat, 90 days)	150 mg/kg body weight

Decamethylcyclopentasiloxane (541-02-6)	
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg body weight (OECD 408 method)
NOAEL (dermal, rat/rabbit, 90 days)	≥ 1600 mg/kg body weight (rat) (OECD 410 method)

Aspiration hazard : Not classified
Inhalation : May cause minor irritation to the respiratory tract and to other mucous membranes.
Skin : Prolonged or repeated contact may cause skin to become dry. May cause an allergic skin reaction.
Eyes : May cause moderate irritation to the eyes.
Ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms : This product may cause reproductive harm and/or developmental effects. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : Toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

1-Chloro-4-trifluoromethylbenzene (98-56-6)	
LC50 - Fish [1]	3 mg/l Danio rerio (Zebrafish)
EC50 - Crustacea [1]	2 mg/l Daphnia magna (Water flea)

Methyl acetate (79-20-9)	
LC50 - Fish [1]	250 – 350 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]	1026.7 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	> 120 mg/l Desmodesmus subspicatus

Decamethylcyclopentasiloxane (541-02-6)	
LC50 - Fish [1]	> 16 µg/l Oncorhynchus mykiss (Rainbow trout)

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Decamethylcyclopentasiloxane (541-02-6)	
EC50 - Crustacea [1]	> 2.9 µg/l daphnia
EC50 96h - Algae [1]	> 0.012 mg/l
NOEC chronic fish	0.014 mg/l Oncorhynchus mykiss (Rainbow trout)
NOEC chronic crustacea	0.015 mg/l Daphnia magna (Water flea)

Titanium tetrabutoxide (5593-70-4)	
LC50 - Fish [1]	1825 mg/l Pimephales promelas (Fathead minnow)
EC50 - Crustacea [1]	1300 mg/l Daphnia magna (Water flea)
ErC50 algae	225 mg/l Pseudokirchneriella subcapitata
NOEC chronic crustacea	4 mg/l Daphnia magna (Water flea)

12.2. Persistence and degradability

Ceramic Coating	
Persistence and degradability	No additional information available.

1-Chloro-4-trifluoromethylbenzene (98-56-6)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	19.2 % 28 days

Methyl acetate (79-20-9)	
Persistence and degradability	Rapidly degradable

Decamethylcyclopentasiloxane (541-02-6)	
Persistence and degradability	Not rapidly degradable

Titanium tetrabutoxide (5593-70-4)	
Persistence and degradability	No additional information available.

12.3. Bioaccumulative potential

1-Chloro-4-trifluoromethylbenzene (98-56-6)	
Partition coefficient n-octanol/water (Log Pow)	3.7

Decamethylcyclopentasiloxane (541-02-6)	
Partition coefficient n-octanol/water (Log Pow)	5.2

Titanium tetrabutoxide (5593-70-4)	
Partition coefficient n-octanol/water (Log Pow)	0.84 Source: ECHA

12.4. Mobility in soil

Decamethylcyclopentasiloxane (541-02-6)	
Mobility in soil	16000 Source: HSDB

12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No

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SECTION 13 Disposal considerations

Regional waste regulation	: Dispose of in accordance with applicable federal, state, and local regulations.
Waste treatment methods	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
UN1993	UN1993	1993	1993
14.2. Proper Shipping Name			
Flammable liquids, n.o.s. (Methyl acetate ; 1-Chloro-4-trifluoromethylbenzene)	FLAMMABLE LIQUID, N.O.S. (Methyl acetate ; 1-Chloro-4-trifluoromethylbenzene)	FLAMMABLE LIQUID, N.O.S. (Methyl acetate ; 1-Chloro-4-trifluoromethylbenzene)	Flammable liquid, n.o.s. (Methyl acetate ; 1-Chloro-4-trifluoromethylbenzene)
Transport document description			
UN1993 Flammable liquids, n.o.s. (Methyl acetate ; 1-Chloro-4-trifluoromethylbenzene), 3, III	UN1993 FLAMMABLE LIQUID, N.O.S. (Methyl acetate ; 1-Chloro-4-trifluoromethylbenzene), 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S. (Methyl acetate ; 1-Chloro-4-trifluoromethylbenzene), 3, III, MARINE POLLUTANT (27°C c.c.)	UN 1993 Flammable liquid, n.o.s. (Methyl acetate ; 1-Chloro-4-trifluoromethylbenzene), 3, III
14.3. Transport hazard class(es)			
3	3	3	3
			
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: Yes	Dangerous for the environment: No
Note: Inner packages with less than 5 liters of liquid are exempt from being shipped as a marine pollutant per IMDG Code 2.10.2.7 and ICAO Special Provision A197.			

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT) : UN1993

TDG

UN-No. (TDG) : UN1993
Emergency Response Guide (ERG) Number : 128

IMDG

No data available

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

IATA

No data available

SECTION 15 Regulatory information

15.1. Federal regulations

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SARA Section 311/312 Hazard Classes

Refer to Section 2 for OSHA Hazard Classification.

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

1-Chloro-4-trifluoromethylbenzene

CAS-No. 98-56-6

60-80%

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.

15.2. International regulations

CANADA

1-Chloro-4-trifluoromethylbenzene (98-56-6)

Listed on the Canadian DSL (Domestic Substances List)

Methyl acetate (79-20-9)

Listed on the Canadian DSL (Domestic Substances List)

Decamethylcyclopentasiloxane (541-02-6)

Listed on the Canadian DSL (Domestic Substances List)

Titanium tetrabutoxide (5593-70-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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Contains substance(s) listed on NDSL

1-Chloro-4-trifluoromethylbenzene (98-56-6)

Listed on IARC (International Agency for Research on Cancer)

Methyl acetate (79-20-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Decamethylcyclopentasiloxane (541-02-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Titanium tetrabutoxide (5593-70-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

 **WARNING:** This product can expose you to chemicals including p-chloro- α,α,α -trifluorotoluene (para-Chlorobenzotrifluoride, PCBTF), which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Methyl acetate(79-20-9)	U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16 Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Revision date : 6/10/2026

Issue date : 8/12/2025

Data sources : This safety data sheet was compiled with data and information from the following sources : ECHA, ECOSAR, HSDB, SIDS SIAP, CESAR, Chemical DB.

Full text of hazard classes and H-statements

H225	Highly flammable liquid and vapor
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child

Indication of changes:

Transport information.

Safety Data Sheet (SDS), USA

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.