

SAFETY DATA SHEET
FOR
ROYALSIL HI-PURITY CPS – D5
According to Hazard Communication Standard 29 CFR 1910.1200

1. IDENTIFICATION

CHEMICAL NAME: CYCLOPENTASILOXANE

SYNONYM: D5, Cyclopentamethicone, Cyclic dimethylsiloxane pentamer

2,2,4,4,6,6,8,8,10,10-Decamethylcyclopentasiloxane

COMMERCIAL NAME: ROYALSIL HI-PURITY CPS D5

LINEAR FORMULA: C₁₀H₃₀O₅Si₅

CAS#: 541-02-6

EINECS#: 208-764-9

PRODUCT RECOMMENDED USE: Commonly used in cosmetics, such as deodorants, sun blocks, hair sprays and skin care products. Becoming more common in hair conditioners, making the hair easier to brush without breakage. Also used as part of silicone based personal lubricants. Considered an emollient.

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CHEMTREC CONTRACT NUMBER: CCN674872

2 - HAZARDS IDENTIFICATION

Classification

Warning
4/H227

Warning
Combustible liquid.

Precautionary Statements

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261

Avoid breathing spray.

P271

Use only outdoors or in a well-ventilated area.

P403 + P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/ container to an approved waste disposal

GHS Classification

Hazards Not Otherwise Classified (HNOC) Not Applicable
Interactions with Other Chemicals Not Applicable

3 - COMPOSITION / INFORMATION ON INGREDIENTS

Decamethylcyclopentasiloxane >90% 541-02-6

4 - FIRST AID MEASURES

First Aid Measures

Eye Contact: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
Skin Contact: Wash with water and soap as a precaution. Get medical attention if symptoms occur.
Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion: Wash out mouth with water

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms / Effects: No Information Available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician: Treat Symptomatically.

5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable Extinguishing Media High volume water jet

Specific Hazards Arising From The Chemical

Do not use a solid water stream as it may scatter and spread

Uniform Fire Code

Hazardous Combustion Products

Carbon oxides, Silicon oxides

Explosion Data

Sensitivity to Mechanical Impact:
N/A

Sensitivity to Static Discharge:
N/A

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions: Choose gloves to protect hands against chemicals depending

Environmental Precautions

Environmental Precautions: Refer to protective measures listed in Section 7 and 8.

Methods and Material for Containment and Cleaning Up

Methods for Containment:

Methods for Cleaning Up: Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray

7 - HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Avoid inhalation of vapor or mist. Handle in accordance with good industrial hygiene

Conditions for Safe Storage, Including Any Incompatibilities

Storage: Keep in properly labeled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition

Incompatible Products Do not store with the following product types: Strong oxidizing agents, Explosives

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Exposure Guidelines:

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate Engineering Controls

Engineering Measures:	Showers Eyewash Stations Ventilation Systems
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Individual Protection Measures, Such as Personal Protective Equipment

Eye / Face Protection: Safety Glasses

Skin and Body Protection: Gloves

Respiratory Protection:

Hygiene Measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State:	Liquid
Appearance:	Clear liquid
Color:	
Odor:	Characteristic
<u>Properties</u>	<u>Values</u>
pH:	N/A
Melting / Freezing Point:	N/A
Boiling Point / Range:	211°C
Flash Point:	77°C (CC)
Evaporation Rate:	<1
Flammability (Solid, Gas):	N/A
Flammability Limits in Air:	N/A
Upper Flammability Limit:	N/A
Lower Flammability Limit:	N/A
Vapor Pressure:	0.15 hPa
Vapor Density:	N/A
Water Solubility:	Insoluble
Solubility In Other Solvents:	N/A
Partition Coefficient: N-Octanol / Water:	N/A
Autoignition Temperature:	392 °C
Decomposition Temperature:	N/A
Kinematic Viscosity:	3.8 mm ² /s
Dynamic Viscosity:	N/A
Explosive Properties:	Not explosive
Oxidizing Properties:	The substance or mixture is not classified as oxidizing

Other Information

VOC Content (%): N/A

10 - STABILITY AND REACTIVITY

<u>Reactivity</u>	N/A
<u>Chemical Stability</u>	Stable under normal conditions.
<u>Possibility of Hazardous Reactions</u>	Will not occur

<u>Hazardous Polymerization</u>	Will not occur
<u>Conditions to Avoid</u>	High Heat
<u>Incompatible Materials</u>	None known. Strong oxidizing agents.
<u>Hazardous Decomposition Products</u>	Stable under normal conditions, may emit noxious fumes of CO.

11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation:

Eye Contact: None known

Skin Contact: None known

Ingestion:

Information on Toxicological Effects

Symptoms:

Delayed and Immediate Effects as well as chronic effects from short and long-term Exposure

Sensitization: N/A

Mutagenic Effects: N/A

Carcinogenicity: N/A

Reproductive Toxicity: N/A

STOT - Single Exposure

STOT - Repeated Exposure Chronic Toxicity

Target Organ Effects: N/A

Aspiration Hazard

Numerical Measures of Toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

Not applicable.

12 - ECOLOGICAL INFORMATION

Ecotoxicity N/A

Persistence Degradability N/A

Bioaccumulation N/A

Other Adverse Effects N/A

13 - DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste Disposal Methods:

If possible recover the product, otherwise dispose of in authorized landfill or incinerate in accordance with local regulations.

Contaminated Packaging: Dispose properly.

US EPA Waste Number:

California Hazardous Waste Code

14 - TRANSPORT INFORMATION

DOT

Proper Shipping Name: Not regulated
Hazard Class:
Description:

TDG

UN-No:
Proper Shipping Name:
Hazard Class:
Description:

MEX

ICAO

IATA

UN-No:
Proper Shipping Name:
Hazard Class:
Description:

IMDG / IM

UN-No:
Proper Shipping Name:
Hazard Class:
EmS No.:
Description:

RID

Not regulated.

ADR

Not regulated.

ADN

Not regulated.

15 - REGULATORY INFORMATION

International Inventories

TSCA:

Not subject to TSCA.

DSL:

All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory.

DSL / N - Canadian Domestic Substances List / Non-Domestic Substances List

U.S. Federal Regulations

SARA 313

Not subject to SARA.

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