

SAFETY DATA SHEET

SECTION 1. COMPANY IDENTIFICATION

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PRODUCT NAME : OS GC1000

PRODUCT CLASSIFICATION : Silicone Coating Agent

SECTIN 2. COMPOSITION

SINGLE OR MIXTURE : Mixture

Organopolysiloxane mixture

HAZARDOUS COMPONENT(S)/ (CAS No.) :

Alko-xid / Confidential Flammable Liquid : ca. 1~2%

Alko-xylene / Confidential Flammable Liquid : ca. 98~99%

SECTION 3 : HAZARDS IDENFITIFICATION

GHS classification

Physical hazards Flammable liquids Category 4

Health hazards The product is not classified according to GHS.

Environmental hazards The product is not classified according to GHS.

GHS label elements

Signal words Warning

Hazard statement Combustible liquid.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Wear protective gloves/protective clothing/eye protection/face protection.

Response In case of fire: Use appropriate extinguishing media for extinction.

Storage Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards This product slowly reacts with water, acids or bases to evolve following compounds:
Methanol

Emergency overview May be ignited by heat, sparks or flames.

SECTION 4. FIRST AID MEASURES

- If inhaled** Move to fresh air. Call a physician if symptoms develop or persist.
- If on skin** Wash skin with soap and water. Get medical attention if irritation develops and persists.
- If in eyes** Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
- If swallowed** Rinse mouth. Get medical attention immediately.

Protection of first-aid responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Notes to physician Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing media Foam. Dry chemical powder. Carbon dioxide (CO₂).

Extinguishing media to avoid Water.

Specific hazards By heating and fire, harmful vapors/gases may be formed.

Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Protection of fire-fighters Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch or walk through spilled material. Ensure adequate ventilation. Wear appropriate personal protective equipment.

Environmental precautions Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

Methods or materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Prevent entry into waterways, sewer, basements or confined areas.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

SECTION 7. HANDLING AND STORAGE

Handling

Technical measures (e.g. Local and general ventilation)

All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Provide adequate ventilation.

Safe handling advice Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Take precautionary measures against static discharges. Do not breathe mist or vapor. Avoid prolonged exposure. Use care in handling/storage.

Contact avoidance measures Refer to section 10: stability and reactivity.

Hygiene measures Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Storage

Safe storage conditions Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store in a well-ventilated place.

Safe packaging materials Keep in original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINE

ACGIH TLV-TWA : Not established.

OSHA PEL : Not established [Alko-xylene]

ACGIH TLV-TWA : Not established.

OSHA PEL : Not established. [Alko-xylene]

ACGIH TLV-TWA : Not established.

OSHA PEL : Not established. [Aluminum-chelate compound]

ACGIH TLV-TWA : TLV-TWA : 1mg/m³ ; STEL 3mg/m³

OSHA PEL : Not established. 8H TWA 1mg/m³ [Phosphoric acid]

ACGIH TLV-TWA : 200ppm : STEL250ppm (SKIN).

OSHA PEL : 8H TWA 200ppm [Methanol ; decomposed product]

RESPIRATORY PROTECTION (specify type) :

Recommended

VWNTILATION :

Local EXHAUST : Required

MECHANICAL (general) : Adequate ventilation system

SPECIAL : Unknown

OTHER : Unknown

PROTECTIVE GLOVES :

Plastic film or rubber gloves

EYE PROTECTION

Safety Glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Safety shower and eye wash equipment

WORK / HYGIENIC PRACTICES :

Keep away from heat, spark and flame.

Avoid prolonged breathing vapor.

Avoid contact with eye and skin.

Wash hands and gargle after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquid.

Color Colorless. Clear.

Odor Slight odor.

pH Not available.

Melting point/Freezing point Not applicable

Boiling point, initial boilingpoint, and boiling range Not applicable

Flash point 145.4 ° F (63 ° C) Closed Cup

Auto-ignition temperature > 392 ° F (> 200 ° C)

Flammability limit – lower (%) 6.0 % v/v [Methanol ; impurity]

Flammability limit – upper (%) 36.0 % v/v [Methanol ; impurity]

Vapor pressure No data

Vapor density > 1 (air=1)

Evaporation rate < 1 (Butyl Acetate=1)

Specific gravity 1.08 (25 ° C)

Solubility (Water) Not soluble (Hydrolyzed with water)

Partition coefficient(n-octanol/water) Not available.

Decomposition temperature Not available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity Slowly reacts with water, acids or bases.

Chemical stability Stable at normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid None specific.

Incompatible materials Strong oxidizing agents. Water, acids or alkalis

Hazardous decomposition products

This product slowly reacts with water, acids or bases to evolve following compounds:

Methanol

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product:

Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide.

Formaldehyde.

SECTION 11. TOXICOLOGICAL INFORMATION

SKIN IRRITATION :

SKIN-RABBIT : 20mg/24Hr MODERATE

[Methanol ; decomposed product]

ACUTE TOXICITY (LD50) :

LD50 (Oral/Mouse) : 18.16ml/kg (Aluminum-chelate compound)

LD50 (Oral/Rat) : 5.628g/kg [Methanol : decomposed product]

ACUTE TOXICITY (LC50) :

LC50 (Inhalation/Rat) : 64000ppm/4hr

[Methanol ; decomposed product]

CHRONIC TOXICITY : May cause conjunctivitis, dizziness, sleeplessness, and gastrointestinal and optical disturbances [Methanol : decomposed product] :

CARCINOGENICITY : NTP : Not listed, IARC : Not listed, OSHA REGULATED : Not listed

OTHER INFORMATION : None

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological data Components

Methanol (Impurity) (CAS 67-56-1)

Aquatic	Species	Test Results
Crustacea	EC50 Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50 Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Ecotoxicity	Not available.	

SECTION 13. DISPOSAL CONSIDERATION

Local disposal regulations

Incinerate. Incinerator should be appropriately equipped for silica and other fine powder which the product will generate in incineration. Workers should wear appropriate personal protective equipment(s) such as respirator. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14. TRANSPORT INFORMATION

International regulations

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This product is not intended to be transported in bulk.

National regulations Follow regulation in section 15 for domestic transportation.

Emergency Response Guide Number 128

SECTION 15. REGULATORY INFORMATION

Industrial Safety and Health Act

Dangerous substances Flammable

Specified substances regulation

Class 1 designated chemical substances Not regulated.

Class 2 designated chemical substances Not regulated.

Class 3 designated chemical substances Not regulated.

Organic solvent regulation

Class 1 organic solvents Not regulated.

Class 2 organic solvents Not regulated.

Class 3 organic solvents Not regulated.

Notifiable substances METHANOL 0.10 – 0.50 %

Labeling substances Not applicable

Poisonous and Deleterious Substances Control Act

Specified poisonous substances Not regulated.

Poisonous substances Not regulated.

Deleterious substances Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances Not regulated.

Class II specified chemical substances Not regulated.

Monitoring chemical substances Not regulated.

Priority Assessment Chemical Substances (PACs) METHANOL

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content) Not applicable

Class 1 substances (substance name, ordinance number and content) Not applicable

Class 2 substances (substance name, ordinance number and content) Not applicable

Fire Service Act Class 4 Group 2 oils (Non-water soluble) Hazard rank III

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule Not regulated.

Air Law, Enforcement Rule Not regulated.

Explosives Control Act Not applicable.

High Pressure Gas Safety Act Not applicable.

Act on Prevention of Marine Pollution and Maritime Disaster Not applicable.

SECTION 16. OTHER INFORMATION

For Industrial Use Only. This material safety data sheet is offered solely for your information Consideration and investigation.

The data described in this MSDS consist of data on literature, our acquisitioned data and analogical inference by data of similar chemical substance or product.

Onsight Corporation. provides no responsibility for the accuracy or completeness of the data contained herein.