

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Orbio Multi-Surface Cleaner
Version # 02
Issue date 27-July-2012
Revision date 23-August-2013
Supersedes date 27-July-2012
CAS # Mixture
MSDS Number 1
Product use Cleaning Agent.
Manufacturer/Supplier Orbio Technologies
701 North Lilac, Minneapolis
MN 55440-1452

Emergency CHEMTREC 1-800-924-7300 (24-hours)
Canada (613) 996-6666 (24 hours)
Mexico 0-1-800-681-9531 (24 hours)

2. Hazards Identification

Physical state Liquid.
Appearance Clear, colorless liquid.
Emergency overview Low hazard for usual industrial or commercial handling by trained personnel.
OSHA regulatory status This material is not considered hazardous by the OSHA Hazard Communication Standard, OSHA 29 CFR 1910.1200.
Potential health effects
Routes of exposure None anticipated, when used as directed.
Eyes Under normal conditions of intended use, this material does not pose a eye hazard. Independent testing has shown the 5000-Sc output is non-irritating.
Skin Under normal conditions of intended use, this material does not pose a skin hazard. Independent testing has shown the 5000-Sc output is non-irritating.
Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Ingestion Under normal conditions of intended use, this material does not pose a risk to health.
Target organs None known.
Chronic effects No other specific acute or chronic health impact noted.
Signs and symptoms Direct contact with eyes may cause temporary irritation. Prolonged contact may cause dryness of the skin.
Potential environmental effects This material is not expected to be harmful to aquatic life.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First Aid Measures

First aid procedures
Eye contact Flush thoroughly with water. If irritation occurs, get medical assistance.
Skin contact Wash contact areas with soap and water. Get medical attention if irritation develops or persists.
Inhalation Move to fresh air. Get medical attention if any discomfort occurs.
Ingestion Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.
Notes to physician Treat symptomatically.

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

5. Fire Fighting Measures

Flammable properties The product is not flammable.

Extinguishing media

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media No restrictions known.

Protection of firefighters

Specific hazards arising from the chemical No unusual fire or explosion hazards noted.

Protective equipment and precautions for firefighters Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous combustion products None known.

6. Accidental Release Measures

Personal precautions Avoid prolonged and repeated contact. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions No special environmental precautions required.

Methods for containment None necessary.

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

Small Spills: Clean surface thoroughly to remove residual contamination. Absorb spillage with suitable absorbent material. For waste disposal, see Section 13 of the MSDS.

Never return spills to original containers for re-use.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Avoid prolonged and repeated contact. Observe good industrial hygiene practices.

Storage Store in original container. Store in sealed containers to maintain efficacy of solution. See technical bulletin for specific container storage information.

8. Exposure Controls / Personal Protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Exposure guidelines No exposure limits noted for ingredient(s).

Engineering controls No particular ventilation requirements.

Personal protective equipment

Eye / face protection Glasses are not required. Independent testing has shown the 5000-Sc output is non-irritating. Wear approved safety glasses as a good hygiene practice.

Skin protection Gloves are not required. Wear suitable gloves as a good hygiene practice.

Respiratory protection No specific recommendations.

General hygiene considerations Wash hands after handling.

9. Physical & Chemical Properties

Appearance Clear, colorless liquid.

Physical state Liquid.

Form Clear, colorless liquid.

Color Colorless.

Odor	Odorless.
Odor threshold	No data available.
pH	10 - 11.5
Vapor pressure	0.02 atm
Vapor density	No data available.
Boiling point	212 °F (100 °C)
Melting point/Freezing point	32 °F (0 °C)
Solubility (water)	Soluble
Specific gravity	No data available.
Flash point	> 199.4 °F (> 93.0 °C) Closed Cup
Flammability limits in air, upper, % by volume	Not applicable.
Flammability limits in air, lower, % by volume	Not applicable.
Auto-ignition temperature	Not applicable.
Evaporation rate	Not applicable.
Viscosity	No data available.
Percent volatile	No data available.
Bulk density	No data available.
Other data	
Decomposition temperature	Not applicable.
Density	No data available.
Dynamic viscosity temp	Not applicable.

10. Chemical Stability & Reactivity Information

Chemical stability	This product is stable under expected conditions of use.
Conditions to avoid	Freezing. Excessive heat.
Incompatible materials	Water reactive materials.
Hazardous decomposition products	None known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Sensitization	Not a skin sensitizer.
Acute effects	Under normal conditions of intended use, this material does not pose a risk to health.
Local effects	None known.
Chronic effects	No other specific chronic health impact noted.
Carcinogenicity	Not classified.
Epidemiology	Not available.
Mutagenicity	Not classified.
Neurological effects	Not available.
Reproductive effects	Not classified.
Teratogenicity	Not available.
Symptoms and target organs	Direct contact with eyes may cause temporary irritation. Prolonged contact may cause dryness of the skin.
Further information	Independent testing has shown the 5000-Sc output is non-irritating.

12. Ecological Information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Environmental effects	None known.
Persistence and degradability	The product is biodegradable.
Bioaccumulation / Accumulation	Not expected to bioconcentrate or bioaccumulate.
Partition coefficient	No data available.
Mobility in environmental media	The product is soluble in water.

13. Disposal Considerations

Waste codes	Not regulated.
Disposal instructions	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	No special precautions.

14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
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CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance (40 CFR 355, Appendix A)	No
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SARA 311/312 Hazardous chemical	No
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Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)	Not controlled
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Canadian regulations	This product is not classified according to WHMIS classification criteria.
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WHMIS status	Non-controlled
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Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

Mexico regulations This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

16. Other Information

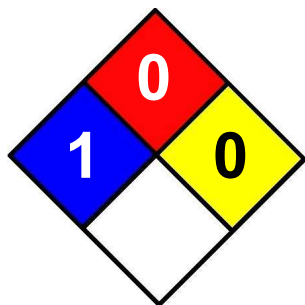
Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1
Flammability: 0
Physical hazard: 0

NFPA Ratings



Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.