

Material Safety Data Sheet (MSDS)

SiLIXOL T&O Ortho Silicic Acid 2.7%

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trade Name : Ortho Silicic Acid 2.7%

Product Use : Agriculture Fertilizer

Manufacturing company : Privi Life Sciences Pvt Ltd

Address : A-71, TTC, Thane-Belapur Road
Koprkhairane, Navi Mumbai – 400709,
Maharashtra, India

Tel : 022 3304 3500-3600

Fax : 022 3304 3636

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	% w/w	EXPOSURE LIMITS IN AIR					CAS
		OSHA		ACGIH		IDLH	
		PEL mg/m ³	STEL mg/m ³	TLV mg/m ³	STEL mg/m ³		
Fish Protein hydrolyzate	>42.0	NE	NE	NE	NE	NE	NA
Boric Acid	>0.60	15	NE	10	6	NE	10043-35-3
Lignin Sulfonate	>0.10	NE	NE	NE	NE	NE	8061-52-7
Ortho Silicic Acid	>2.7	NE	NE	NE	NE	NE	Proprietary
Aqua	Q.S.	NE	NE	NE	NE	NE	7732-18-5

NE = Not Established

C = Ceiling Limit

See Section 16 for Definitions of Terms Used

NA= Not Applicable

SECTION 3: HAZARD IDENTIFICATION

Potential Acute Health Effects : May be slightly irritant in case of skin contact/ eye contact/ ingestion/ inhalation.

Repeated or prolonged exposure is not known to aggravate medical condition.



SECTION 4: FIRST AID MEASURES

Eye Contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact : Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Inhalation : If inhaled, move to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : Rinse mouth. Do Not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 5: FIRE FIGHTING MEASURES

Flammability of the Product : May be combustible at high temperature.

Auto-Ignition Temperature : Not available.

Flash Points : Above 190°C.

Fire Hazards in Presence of Various Substances : Slightly flammable in presence of open flames.

Fire Fighting Media and Instructions : SMALL FIRE: Use DRY chemical powder; LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills & Disposal: Contain and collect using absorbent material. Small spills may be flushed to sewer. Dispose of to landfill.

SECTION 7: HANDLING AND STORAGE

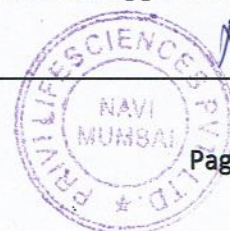
Precautions : Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved /certified respirator or equivalent. Gloves.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	: Clear & Viscous Liquid
MolecularWeight	: Mixture
Color	: Amber
pH (0.1% soln/water)	: 5.0 -6.0 (@ 77°F)
SpecificGravity	: 1.000- 1.200 g/ml. (Water = 1)
Solubility	: Soluble in water (@ 77°F)

SECTION 10: STABILITY AND REACTIVITY

Stability	: Stable under conditions of standard temperature and pressure.
Conditions of Instability	: Incompatible materials, excess heat.
Polymerization	: Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

Possible Routes of Entry	: Skin contact, Eye contact, Inhalation, Ingestion.
Toxicity to Animals	: Not determined.
Other Toxic Effects on Humans	: Slightly irritant in case of skin contact/ ingestion/ inhalation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	: Not available.
Products of Biodegradation	: Degraded products are nonhazardous
Toxicity of the Products of Biodegradation:	Non toxic

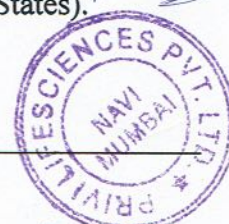
SECTION 13: DISPOSAL CONSIDERATION

Waste Disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Disposal Regulatory Requirements : Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification	: Not a DOT controlled material (United States).
Identification	: Not applicable.
Special Provisions for Transport	: Not applicable.



SECTION 15: REGULATORY INFORMATION

OSHA : Not Determined

TSCA (Toxic Substance Control Act) : Not Determined

Other Classifications:

WHMIS (Canada) : Not Determined

DSCL (EEC) : Not Determined

SECTION 16: OTHER INFORMATION

Further Information : Keep out of reach of children.

Other Special Considerations : Not available.

Created : 12/04/2019 11:55AM

Last Updated : 30/07/2019 12:01 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall PRIVI LIFE SCIENCES be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if PRIVI LIFE SCIENCES has been advised of the possibility of such damages.

A large number of abbreviations and acronyms appear on a MSDS. Some of these which are commonly used include the following:

EXPOSURE LIMITS IN AIR:

ACGIH - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits.
TLV - Threshold Limit Value - an airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average (**TWA**), the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level (**C**). Skin absorption effects must also be considered.

OSHA - U.S. Occupational Safety and Health Administration.

PEL - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL which was vacated by Court Order. **IDLH** - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30- minutes without suffering escape-preventing or permanent injury. **The DFG - MAK** is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. **NIOSH** is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (**OSHA**). NIOSH issues exposure guidelines called Recommended Exposure Levels (**RELs**). When no exposure guidelines are established, an entry of **NE** is made for reference.

REGULATORY INFORMATION: This section explains the impact of various laws and regulations on the material. **U.S.:** **EPA** is the U.S. Environmental Protection Agency. **DOT** is the U.S. Department of Transportation.

