

SECTION 1 - IDENTIFICATION

COMPANY ADDRESS:

The Virtual Foundry, Inc
1471 US HWY 51
Stoughton, WI 53589
USA

EMERGENCY PHONE NUMBER: Information about the product can be obtained at (608) 509-7146 (Monitored 9am - 5pm Central Time USA Monday - Friday).
For all emergency calls, call the relevant emergency number for your country.

PRODUCT NAME: **Tumbling Liquid**

PRODUCT USE: Polishing sintered metal 3D printed parts using a rotary tumbler.

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

CLASSIFICATION: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

SIGNAL WORD: Not Applicable

PHYSICAL HAZARDS: Can cause eye and skin irritation.

HAZARD STATEMENTS: No information available.

OTHER HAZARDS: The product is not intended for applications in which it may come in contact with food or drinking water.



SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

The ingredient names and percentages information are omitted as they are a trade secret.

SECTION 4 - FIRST AID MEASURES

IF SWALLOWED: Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Seek medical attention immediately.

IF ON SKIN OR CLOTHING: Wash hands and contact skin with soap and water.

IF IN EYES: Rinse with water. Seek medical attention if irritation is persistent.

IF INHALED: Can cause irritation. If use causes discomfort, move to a well ventilated area and seek medical attention.

MAIN SYMPTOMS: Redness, coughing and/or wheezing. Eye irritation and possibly eye damage may occur when in direct contact with eyes.

NOTE TO PHYSICIAN: Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABILITY

AUTOIGNITION TEMPERATURE: None known.

SUITABLE EXTINGUISHING MEDIA: Foam, water, carbon dioxide, or dry chemical.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: In case of fire, do not breathe in fumes.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, sodium, and nitrogen.

SENSITIVITY TO MECHANICAL IMPACT: Not sensitive.

SENSITIVITY TO STATIC DISCHARGE: No information available.

FIRE FIGHTING INSTRUCTIONS AND FIRE FIGHTING EQUIPMENT: No information available.

ADDITIONAL INFORMATION: No information available.

PERSONAL PROTECTIVE EQUIPMENT: MSHA/NIOSH approved self-contained breathing apparatus or equivalent.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Standard personal protection equipment. Avoid contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS: No information available.

METHODS FOR CLEANING UP: Absorb with sand and dispose of as solid waste.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Work in a ventilated area. Low hazard for usual handling.

STORAGE: Store in a cool, dry environment; keep away from heat, sparks, and flames. Storage space should not exceed 50 °C (122 °F).

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS

The ingredient names and percentages information are omitted as they are a trade secret.

ENGINEERING CONTROLS

Engineering Measures: Use local exhaust as needed.

PERSONAL PROTECTIVE EQUIPMENT

Eye protection: Avoid contact with eyes.

Skin protection: Wear appropriate protective clothing to minimize risk of injury to the skin from contact. Wear long sleeved/impervious clothing if contact is probable and skin is sensitive.

Respiratory protection: Use in a well-ventilated area.

Hand protection: Wash hands after handling.

Hygiene measures: Provide regular cleaning of equipment, work area and clothing. Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink, or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. Use personal protective equipment as required.

Special hazard: No information available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Liquid
Color:	Translucent Green
Odor:	Slight
Odor Threshold:	No information available.
pH:	No information available.
Melting/Freezing Point:	No information available.
Boiling Point:	No information available.
Flash Point:	No information available.
Evaporation Rate:	No information available.
Flammability:	No information available.
Flammability Limits:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Relative Density:	No information available.
Water Solubility:	No information available.
Solubility in other solvents:	No information available.
Chemical Stability:	No information available.

Partition Coefficient:	No information available.
Auto-Ignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY: Not reactive under normal conditions.

INCOMPATIBILITY: Strong alkalis, oxidants, and acids.

CHEMICAL STABILITY: Stable under recommended storage conditions.

HAZARDOUS POLYMERIZATION: Will not undergo hazardous polymerization.

CONDITIONS & MATERIALS TO AVOID: Strong alkalis, oxidants, and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, sodium and nitrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

Principal routes of exposure: Skin contact.

PRODUCT INFORMATION:

Toxicity: None established.

Carcinogenic effects: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Target organ effects: Eyes, Respiratory system.

Ingestion: May cause gastrointestinal discomfort if consumed in large amounts. Not an expected route of exposure.

Inhalation: Inhalation of dust in high concentration may cause irritation of the respiratory system.

Eye Contact: Contact with the eyes can lead to irritation.

Symptoms related to the physical, chemical, and toxicological characteristics: No information available.

Delayed, immediate, and chronic effects from short and long term exposure: No information available.

Irritation: May be irritating to eyes, skin, and respiratory system.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Pellets may be eaten by wildlife and should be swept up and placed in closed containers.

Persistence and degradability: Not readily biodegradable.

Bioaccumulation: Not expected to bioconcentrate or bioaccumulate.

Other adverse effects: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose in compliance with Federal, State, and local disposal laws for nonhazardous waste. Should not be released into the environment. Do not contaminate ponds, waterways or ditches with chemical or used containers. Contact the manufacturer with questions.

CONTAMINATED PACKAGING: Dispose in compliance with Federal, State, and local disposal laws for nonhazardous waste. Packaging may not be reused.

SECTION 14 - TRANSPORT INFORMATION

DOT: Not regulated.
MEX: Not regulated.
ICAO: Not regulated.
IATA: Not regulated.
IMDG: Not regulated.
UN NUMBER: N/A.

Transportation In Bulk: Not Applicable.

Special Precautions For Transport: None.

SECTION 15 - REGULATORY INFORMATION

Regulatory requirements are subject to change and may differ between locations. It is the User's responsibility to ensure that all activities comply with all federal, state or provincial, and local laws and regulations. The following specific information is made for the purpose of complying with numerous national, federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

DOT: This product is not regulated by USDOT as a Hazardous Material (49 CFR 172.101). No UN code assigned. No placard required for transportation.

SARA (TITLE III): Not Listed.
SARA (SECTION 313): Not Listed.
CALIFORNIA PROP. 65: Not Listed.
TSCA: Listed.

CLEAN AIR ACT, TITLE VI (1990): This product does not contain, nor was it manufactured using ozone depleting chemicals.

Inventory Status:
TSCA (USA): Listed*
DSL (Canada): Not Listed
EINECS (Europe): Listed*
AICS (Australia): Listed*
ENCS (Japan): Listed*

IECS (People's Republic of China): Listed*
 KECL (Korea): Listed*
 TCSI (Taiwan): Not Listed

*"Listed" indicates that all components of this product comply with the inventory requirements administered by the governing country.

SECTION 16 - OTHER INFORMATION, INCLUDING THE DATE OF PREPARATION OF THE LAST REVISION

LABEL REQUIREMENTS: Not expected to produce significant adverse health effects when the recommended instructions for use are followed.

NFPA HAZARD RATINGS	HEALTH	1
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	INSTABILITY	-
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

HMIS HAZARD RATINGS	HEALTH	1
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	X
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

DISCLAIMER: The information provided in this SDS is based on available data from reliable sources and is correct to the best of The Virtual Foundry, Inc's knowledge. The Virtual Foundry, Inc makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

REVISED DATE: March 2024