

Tputty™ 607

Version 2.1

Issue Date : 02/21/2024 Ref. 130000158278
Revision Date : 02/21/2024

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Tputty™ 607
Product Use : For industrial use only.

Restrictions on use : Do not use product for anything outside of the above specified uses.
Manufacturer/Supplier : Laird Technologies
4707 Detroit Ave Cleveland, OH 44102 USA

Product Information : +1-216-939-2300
Transport Emergency : +1-800-424-9300 (outside the U.S. & Canada +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 1 - 10 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Zinc oxide	1314-13-2	10 - 20 %
Dimethyl silicone	63148-62-9	1 - 10 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

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- General advice** : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First Aid responders should pay attention to self-protection and use the recommended protective clothing. Remove from exposure, lie down.
- Inhalation** : Is not an expected route of exposure under normal conditions. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep person calm. If symptoms persist, call a physician. If unconscious, place in recovery position and get medical attention immediately. Keep respiratory tract clear.
- Skin contact** : Take off contaminated clothing and shoes immediately. Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse.
- Eye contact** : If easy to do, remove contact lens, if worn. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.
- Ingestion** : Rinse mouth. Call a physician immediately. Do NOT induce vomiting. Place unconscious person on the side in the recovery position and ensure open airways. Do not give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed** : May irritate skin.
 May irritate eyes.
 May cause irritation of the mucous membranes.
 For further information see Section 11.
- Protection of first-aiders** : No applicable data available.
Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Symptoms may be delayed for several hours.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Dry powder, Sand
- Unsuitable extinguishing media** : Water, Carbon dioxide (CO₂), Foam

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- Specific hazards : Material will burn. May release toxic and/or hazardous fumes and gases. Dust may form explosive mixture in air. Do not allow run-off from fire fighting to enter drains or water courses. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Hydrocarbons carbon dioxide, Carbon monoxide, Metal oxides, Silicon oxides.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
In the event of fire and/or explosion do not breathe fumes. Evacuate personnel to safe areas.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Keep unnecessary and unprotected personnel from entering. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Control access to area. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. If the material is involved in a fire, or if dusts are produced, no action shall be taken involving any personal risk or without suitable training. Avoid breathing dust.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.
- Spill Cleanup : Sweep up or vacuum up spillage and collect in suitable container for disposal. For disposal instructions see section 13. Large spills should be collected mechanically (remove by pumping) for disposal. Eliminate all ignition sources if safe to do so. Move it to a safe place. Do not touch spilled material. Avoid

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dust formation. Wet wipe or vacuum up using a high efficiency particulate air (HEPA) vacuum. Use explosion proof equipment. Do not dry sweep dust accumulation.

Accidental Release Measures : Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : For personal protection see section 8. Handle in accordance with good industrial hygiene and safety practice. Provide adequate ventilation. Use personal protective equipment as required. Wash hands thoroughly after handling. Take precautionary measures against static discharges. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Avoid exposure - obtain special instructions before use. Avoid contact during pregnancy and while nursing. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only with adequate ventilation/personal protection. Do not breathe dust. Wash hands before breaks and immediately after handling the product. Wash hands before eating, drinking, or smoking. Regular cleaning of equipment, work area and clothing. Wash contaminated clothing before re-use. Remove contaminated clothing and protective equipment before entering eating areas. Avoid contact with the skin and the eyes.

Handling (Physical Aspects) : Keep away from heat and sources of ignition. No smoking.

Dust explosion class : No applicable data available.
 Storage : Keep in cool, dry place in original containers. Store away from incompatible materials (see Section 10). Store locked up. Store in a well-ventilated area away from heat and sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep tightly closed. Store in accordance with the particular national regulations. Keep away from oxidizing agents, strongly acid or alkaline materials and amines. Store at room temperature.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Use a local and/or general ventilation system. Local exhaust ventilation should be employed to minimize airborne contamination. Use only with adequate ventilation. Any process that has the potential to generate dust should be performed using engineering controls, such as isolation, enclosures, local exhaust ventilation, wetting with appropriate solvent, or dust collection systems, to control airborne fibers and dusts below applicable limits. Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment
 Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
 Suitable respiratory equipment: Respirator with a full face mask
 Recommended Filter type: particulate prefilter
 Wear NIOSH approved respirator with APF rating 1000. Consult the OSHA respiratory protection information located at 29CFR 1910.134.

Hand protection : Material: Chemical-resistant gloves

Hand protection : Material: butyl-rubber

Hand protection : Material: Nitrile rubber

Hand protection : Additional protection: Protective gloves should be worn when the potential exists for prolonged or repeated skin contact.

Hand protection : Additional protection: Request information on glove permeation properties from the glove supplier.

Hand protection : Additional protection: Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Wear safety glasses with side shields. Ensure that eyewash stations and safety showers are close to the workstation location. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.

Skin and body protection : Wear suitable protective clothing.

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Wear impervious, thermal barrier/insulated clothing such as gloves, apron, boots, or whole bodysuit to prevent ANY contact with liquid or vaporizing material.

Protective measures : Wear suitable protective equipment.

Exposure Guidelines

Exposure Limit Values

This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

Zinc oxide			
TLV	(ACGIH)	2 mg/m3	TWA Respirable particulate matter
TLV	(ACGIH)	10 mg/m3	STEL Respirable particulate matter
REL	(NIOSH)	5 mg/m3	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Dust
REL	(NIOSH)	5 mg/m3	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Fumes
REL	(NIOSH)	10 mg/m3	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday Fumes
REL	(NIOSH)	15 mg/m3	Ceiling value not be exceeded at any time. Dust
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3	8 hr. TWA Fumes
PEL (Permissible Exposure Limit)	(OSHA)	15 mg/m3	8 hr. TWA total dust
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3	8 hr. TWA respirable fraction
PEL (Permissible Exposure Limit)	(OSHA)	10 mg/m3	TWA Total dust
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3	TWA respirable dust fraction
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3	TWA Fumes
PEL (Permissible Exposure Limit)	(OSHA)	10 mg/m3	STEL Fumes

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Dimethyl silicone

No applicable data available.

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid
Form : paste
Color : blue

Odor : none

Odor threshold : No applicable data available.

pH : No applicable data available.

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : No applicable data available.

Evaporation rate : No applicable data available.

Flammability (solid, gas) :

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Specific gravity (Relative density) : 3.4 at 25 °C (77 °F)

Water solubility : No applicable data available.

Solubility(ies) : No applicable data available.

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Partition coefficient: n-octanol/water : No applicable data available.
Auto-ignition temperature : No applicable data available.
Decomposition temperature : No applicable data available.
Viscosity, kinematic : No applicable data available.
Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable at normal ambient temperature and pressure.
Chemical stability : Stable at normal ambient temperature and pressure.
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
Conditions to avoid : Decomposes on heating. Avoid prolonged exposure at or above the recommended processing temperatures.
Incompatible materials : Strong oxidizing agents Strong acids, Strong bases, reactive metals
Hazardous decomposition products : Carbon oxides, Metal oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Zinc oxide
Inhalation 4 h LC50 : > 5.7 mg/l , Rat
Dermal LD50 : > 2,000 mg/kg , Rat
Oral LD50 : > 5,000 mg/kg , Rat
Skin irritation : No skin irritation, Rabbit
Eye irritation : No eye irritation, Rabbit
Minimal effects that do not meet the threshold for classification.
Skin sensitization : Does not cause skin sensitisation., Guinea pig
Repeated dose toxicity : Inhalation

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Rat
- 90 d
dust/mist Method: OECD Test Guideline 413
No toxicologically significant effects were found.

Skin contact
Rat
- 28 d Method: OECD Test Guideline 410
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.

Mutagenicity : Weight of evidence does not support classification as a germ cell mutagen.
Overall weight of evidence indicates that the substance is not mutagenic.

Reproductive toxicity : Weight of evidence does not support classification for reproductive toxicity
Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
Information given is based on data obtained from similar substances.

Teratogenicity : Animal testing showed no developmental toxicity.

Dimethyl silicone

Skin irritation : No skin irritation, Rabbit

Eye irritation : Slight or no eye irritation, Rabbit

Skin sensitization : Does not cause skin sensitisation., Guinea pig

Repeated dose toxicity : Ingestion
Rat
- 28 d
NOAEL: > 10000, Method: OECD Test Guideline 408
No toxicologically significant effects were found.

Dermal
Rabbit
- 28 h
NOAEL: 1000,
No toxicologically significant effects were found.

Mutagenicity : Did not cause genetic damage in cultured bacterial cells.

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Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION**Aquatic Toxicity****Zinc oxide**

96 h LC50 : Danio rerio (zebra fish) 1.55 mg/l

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) 0.136 mg/l OECD Test Guideline 201

72 h NOEC : Pseudokirchneriella subcapitata (green algae) 0.024 mg/l OECD Test Guideline 201

48 h EC50 : Daphnia magna (Water flea) 0.481 mg/l OECD Test Guideline 202

32 d : NOEC Danio rerio (zebra fish) > 0.54 mg/l OECD Test Guideline 210

21 d : NOEC Daphnia magna (Water flea) 0.058 mg/l

Dimethyl silicone

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 5,023.26 mg/l

48 h EC50 : Daphnia magna (Water flea) > 1,000 mg/l

Environmental Fate**Zinc oxide**

Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances.

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Dimethyl silicone
 Biodegradability : Not biodegradable
 Not readily biodegradable.
 Biodegradability : 30.9 % OECD Test Guideline 301B

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Dispose of in accordance with local regulations. This material and its container must be disposed of in a safe way. Dispose of contents/container to an approved waste disposal plant in accordance with local, regional and national legislations. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Contaminated packaging : Since empty containers retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
IMDG	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Zinc oxide)

Not regulated as a hazardous material by DOT.
 Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section

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2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

SECTION 15. REGULATORY INFORMATION

- TSCA : Product or component subject of a TSCA Low Volume Exemption (LVE), 40CFR723.50(c)(1). There are use restrictions, exposure and/or release controls that are binding to users or processors of the LVE substance. Failure to comply with the restrictions or controls may result in discontinued supply of this product and/or notification to EPA. Based on EPA's assessment that includes analogue data, this substance may cause skin irritation, specific target organ toxicity and toxic to aquatic life. Based on GHS criteria, this substance is not classifiable.
- SARA 311/312 Hazard classification : No SARA Hazards
- SARA 313 Regulated Chemical(s) : The following components are subject to reporting levels established by SARA Title III, Section 313: Aluminum oxide, Zinc oxide
- California Prop. 65 : This product can expose you to substances including Lead monoxide, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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