# SAFETY DATA SHEET



# 1. Identification

Product identifier Tputty 508

Other means of identification None.

**Recommended use** Thermal interface material.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Laird

Address 4707 Detroit Ave Cleveland, Ohio 44102

USA

**Telephone number** +1-216-939-2300

Email clv-customerservice@lairdtech.com

Manufacturer Laird

Address C3&C4 Building, HongTai Industry Park, NO.87 Tai Feng Road, TEDA,

Tianjin, China

**Telephone number** +86(0)22-66298160

**Emergency telephone** 

number

0086-022-66298160 # 825 (24 hours)

Corporate Office Laird PLC

Address 100 Pall Mall, London, SW1Y 5NQ

United Kingdom

**Telephone number** +44 (0)20 7468 4040

Emergency telephone Within USA and Canada: 1-800-424-9300 (Chemtrec). Other Countries: +1-703-527-3887.

number

24 hours per day, 7 days per week. Collect calls accepted.

2. Hazard(s) identification

**Telephone hours** 

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### Mixtures

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

Tputty 508 SDS US
927478 Version #: 03 Revision date: 11-April-2022 Issue date: 04-February-2016 A17437-00, Rev B 1 / 6
4/18/2022, DCO 004056

### 4. First-aid measures

Inhalation Not relevant, due to the form of the product.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. No harmful effects expected in amounts likely to be ingested by accident. Under normal conditions of intended use, this product is not expected to be a health risk.

Most important

**General information** 

symptoms/effects, acute and

delayed

Treat symptomatically.

Indication of immediate medical attention and special

treatment needed

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

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

No restrictions known.

Use fire-extinguishing media appropriate for surrounding materials.

Specific hazards arising from the chemical

Special protective equipment

During fire, hazardous combustion products are released that may include: Carbon oxides. Fumes

of metal oxides. Silicon oxide fumes. Nitrogen oxides.

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use water spray to cool unopened

containers.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods No unusual fire or explosion hazards noted.

General fire hazards

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Pick up and arrange disposal. Recover and recycle, if practical. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the SDS for additional personal protection advice when handling this product. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in closed original container in a dry place. Store away from incompatible materials (see

Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Used as intended, this product is not expected to generate potentially hazardous quantities of dust or fumes. In an industrial work environment no special precautions or control measures are

required.

Individual protection measures, such as personal protective equipment

Eye/face protection Not normally needed. If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

Suitable gloves can be recommended by the glove supplier.

Skin protection

No skin protection is ordinarily required under normal conditions of use. In accordance with good Other

industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory protection not required. Respiratory protection

Tputty 508 SDS US 2/6 927478 Version #: 03 Revision date: 11-April-2022 Issue date: 04-February-2016

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

**General hygiene** considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

**Physical state** Solid. Paste. **Form** Color Green. None. Odor

**Odor threshold** Not applicable. μH Not applicable. Not applicable. Melting point/freezing point Initial boiling point and boiling Not applicable.

range

Flash point Not applicable. Not applicable. **Evaporation rate** Not flammable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not applicable. Explosive limit - upper (%) Not applicable. Vapor pressure Not applicable. Vapor density Not applicable.

Relative density 3.2 (Water=1) (77 °F (25 °C))

Solubility(ies)

Insoluble in water. Solubility (water)

Partition coefficient Not applicable for mixtures.

(n-octanol/water)

**Auto-ignition temperature** Not applicable. **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

3.2 g/cm3 (77 °F (25 °C)) **Bulk density** 

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing. Not applicable. VOC

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Decomposition is not expected under normal conditions of use and storage. In the event of fire: **Hazardous decomposition** See Section 5. products

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Due to the physical form of the product, the ingredients are not expected to present a hazard by

Skin contact No adverse effects due to skin contact are expected.

SDS US Tputty 508 927478 Version #: 03 Revision date: 11-April-2022 Issue date: 04-February-2016

Direct contact with eyes may cause temporary irritation. Eye contact

No harmful effects expected in amounts likely to be ingested by accident. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Under normal conditions of intended use, this product is not expected to be a health risk.

### Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

Skin corrosion/irritation No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Serious eye damage/eye

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

### NTP Report on Carcinogens

Not listed.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not relevant, due to the form of the product.

# 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability The product contains inorganic compounds which are not biodegradable.

No data available on bioaccumulation. Bioaccumulative potential

Mobility in soil The product is insoluble in water. Expected to have low mobility in soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Other adverse effects

#### 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. **Disposal instructions** 

Dispose in accordance with all applicable regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging Since emptied containers may 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.

# 14. Transport information

### DOT

Not regulated as dangerous goods.

# IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Tputty 508 SDS US 927478 Version #: 03 Revision date: 11-April-2022

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

Not applicable.

# 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.

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

Not regulated

# CERCLA Hazardous Substance List (40 CFR 302.4)

Filler (CAS 1314-13-2) Listed.

## SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**Toxic Substances Control Act (TSCA)** 

All components of the mixture on the TSCA 8(b) inventory are designated

active".

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Filler	1314-13-2	0.5 - 2.5	
Filler	1344-28-1	80 - 90	

## Other federal regulations

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

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US** state regulations

### **US. Massachusetts RTK - Substance List**

Filler (CAS 1314-13-2) Filler (CAS 1344-28-1)

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

Filler (CAS 1314-13-2) Filler (CAS 1344-28-1)

# US. Pennsylvania Worker and Community Right-to-Know Law

Filler (CAS 1314-13-2) Filler (CAS 1344-28-1)

### **US. Rhode Island RTK**

Filler (CAS 1314-13-2) Filler (CAS 1344-28-1)

## **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

## **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Tputty 508 SDS US

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
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

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Taiwan Chemical Substance Inventory (TCSI)

# country(s).

Taiwan

# 16. Other information, including date of preparation or last revision

**Issue date** 04-February-2016 **Revision date** 11-April-2022

Version # 03

**HMIS**® ratings Health: 0

Flammability: 0 Physical hazard: 0

**NFPA** ratings



## Disclaimer

Laird cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Tputty 508 SDS US

Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply 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