# **SAFETY DATA SHEET**



## 1. Identification

Product identifier Tputty 502

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

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

#### 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbolNone.Signal wordNone.Hazard statementNone.

**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.

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#### 4. First-aid measures

Inhalation Not relevant, due to the form of the product. Skin contact Not relevant, due to the form of the product. Eye contact Not relevant, due to the form of the product. Ingestion Not relevant, due to the form of the product. Most important Not relevant, due to the form of the product.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

**General information** First aid personnel must be aware of own risk during rescue.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special 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.

Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods General fire hazards

Contains one or more components that will burn if involved in a fire.

Use fire-extinguishing media appropriate for surrounding materials.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

clean-up.

Methods and materials for containment and cleaning up

**Environmental precautions** 

Sweep up or gather material and place in appropriate container for disposal. For waste disposal, see section 13 of the SDS.

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

or fumes.

controls

Used as intended, this product is not expected to generate potentially hazardous quantities of dust

In an industrial work environment no special precautions or control measures are required.

Eye/face protection Not normally needed.

Skin protection

Hand protection

Not normally needed.

Individual protection measures, such as personal protective equipment

Other

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

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

Respiratory protection

Not normally needed.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

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General hygiene considerations

Wash hands after contact.

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## 9. Physical and chemical properties

**Appearance** 

Solid. **Physical state** Sheet. **Form** White Color Odorless. Odor **Odor threshold** Not applicable. Not applicable. рH Not available. Melting point/freezing point Initial boiling point and boiling Not applicable.

range

Not applicable. Flash point **Evaporation rate** Negligible.

Flammability (solid, gas) Contains one or more components that will burn if involved in a fire.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapor pressure Negligible. Vapor density Negligible. Not available. Relative density

Solubility(ies)

Solubility (water) Negligible. **Partition coefficient** Not available.

(n-octanol/water)

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

Other information

1.2 g/cc at 25 °C **Bulk density Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing. VOC < 1 %

## 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

**Hazardous decomposition** 

products

Carbon oxides. Nitrogen oxides. Silicon oxide fumes. Boron compounds.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Not likely, due to the form of the product. No adverse effects due to skin contact. Skin contact

Eye contact No adverse effects due to eye contact are expected.

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

Tputty 502 SDS US 3/6 Symptoms related to the physical, chemical and toxicological characteristics Not relevant, due to the form of the product.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Not classified. Skin corrosion/irritation Not classified. Serious eye damage/eye

irritation

Respiratory or skin sensitization

Respiratory sensitization Not classified. Not classified. Skin sensitization Not classified. Germ cell mutagenicity Not classified. Carcinogenicity

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 Not classified. Specific target organ toxicity -

Not classified.

single exposure Specific target organ toxicity -

repeated exposure

Not classified.

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

**Chronic effects** Chronic effects are not expected when this product is used as intended.

## 12. Ecological information

**Ecotoxicity** 

Mobility in soil

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available on bioaccumulation. The product is insoluble in water.

Other adverse effects

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

#### 13. Disposal considerations

**Disposal instructions** 

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

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

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

disposal company.

Waste from residues / unused

products

Dispose of 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.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

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## 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)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**Toxic Substances Control Act (TSCA)** 

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No (Exempt)

chemical

SARA 313 (TRI reporting)

Not regulated.

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 1303-86-2)

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

Filler (CAS 1303-86-2)

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

Filler (CAS 1303-86-2)

**US. Rhode Island RTK** 

Filler (CAS 1303-86-2)

**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.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Filler (CAS 1303-86-2)

#### International Inventories

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)	No
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)	No
Korea	Existing Chemicals List (ECL)	No

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Country(s) or region Inventory name On inventory (yes/no)\*

New Zealand New Zealand Inventory

**Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes No

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

\*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).

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

Issue date 22-December-2015 **Revision date** 16-April-2020

Version #

Health: 0 **HMIS®** ratings

Flammability: 1 Physical hazard: 0 Personal protection: B

NFPA ratings



References ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank NLM: Hazardous Substances Data Base

National Toxicology Program (NTP) Report on Carcinogens IARC Monographs. Overall Evaluation of Carcinogenicity

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 502 SDS US