# **SAFETY DATA SHEET**



# 1. Identification

Product identifier Tputty 403

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 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 403 SDS US
922813 Version #: 02 Revision date: 02-October-2020 Issue date: 29-March-2016 1 / 6

#### 4. First-aid measures

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

Skin contact Wash hands with water as a precaution. No adverse effects due to skin contact are expected. Flush eyes with water as a precaution. No adverse effects due to eye contact are expected. Eye contact 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

No restrictions known.

media

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Use fire-extinguishing media appropriate for surrounding materials.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in

the workplace.

Fire fighting

equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk.

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

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Sweep up or gather material and place in appropriate container for disposal. 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** 

controls

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

Appropriate engineering

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

# 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.

Skin protection

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 required. Respiratory protection

Tputty 403 SDS US 2/6 922813 Version #: 02 Revision date: 02-October-2020 Issue date: 29-March-2016

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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** 

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

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

range

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

Flammability limit - lower

Not applicable.

Flammability limit - upper

(%)

Not applicable.

Vapor pressure Not applicable. Vapor density Not applicable. Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Not available. Partition coefficient (n-octanol/water)

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

Other information

2.5 g/cc (77 °F (25 °C)) **Bulk density** 

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

# 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.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** Thermal decomposition or combustion may produce: Fumes of metal oxides. Silicon oxide fumes.

Carbon oxides. 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

inhalation.

SDS US Tputty 403 922813 Revision date: 02-October-2020 Issue date: 29-March-2016 Version #: 02

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

No adverse effects due to eye contact are expected.

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

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.

Serious eye damage/eye

No adverse effects due to eye contact are expected.

irritation

#### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

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

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

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

**Ecotoxicity**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.

Mobility in soil No data available for this product.

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.

Tputty 403 SDS US

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

# 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)

**Toxic Substances Control Act (TSCA)** 

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

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)

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** 

Not regulated.

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

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

Not listed.

**US. Rhode Island RTK** 

Not regulated.

#### 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)\*

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

Yes

\*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 29-March-2016

Tputty 403 SDS US Revision date 02-October-2020

Version # 02

HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

**NFPA** ratings

0 0

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

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

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

**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 403 SDS US