

Safety Data Sheet
Thermo-Fill HT - Part B

Original Release Date: 05/12/2015

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Thermo-Fill HT – Part B

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Intended to repair pipes

Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

Supplier: NRI
3875 Fiscal Court Suite #100
Riviera Beach, FL 33404. USA.
1- 561 - 683 - 6992
europe@neptunerresearch.com

E-mail address:

1.4. Emergency telephone number

Emergency telephone number: +48 33 488 12 85 (only available during office hours)

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Regulation (EC) No 1272/2008

Skin corrosion/irritation – Category 2

Serious eye damage/eye irritation – Category 1

Skin sensitization - Category 1

Chronic Aquatic Toxicity – Category 2

Physical hazards: None

Classification according to EU Directives 67/548/EEC or 1999/45/EC

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Symbol(s): Xn – Harmful

R-code(s): Xn;R20/22 - R43

For the full text of the R-phrases mentioned in this Section, see Section 16

2.2 Label Elements: Labeling according to Regulation (EC) No. 1272/2008 [CLP]

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Signal Word: Danger

Hazard Statements:

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H411 Toxic to aquatic life with long lasting effects

Precautionary Statement:

- P362 - Take off contaminated clothing and wash before reuse
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 - Immediately call a POISON CENTER or doctor/ physician
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P273 - Avoid release to the environment
- P391 - Collect spillage

Section 3 Composition/ Information on Ingredients

3.2 Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU – GHS Substance Classification	REACH No.
Trade Secret	Not Listed	-	40 - 70	Xi; R36/38 R43 N;R51-53	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	No data available
Trade Secret	Listed	-	20 – 50	R43	Skin Sens. 1 (H317)	No data available
3-(Triethoxysilyl) propylamine	213-048-4	919-30-2	0 - 3	Xn; R22 C; R34	Acute Tox. 4 (H302) Skin Corr. 1B (H314)	No data available
1,5-Pentanediamine, 2-	239-556-	15520-10-	0 - 1	Xn; R22	Skin Sens.1	No data available

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methyl	6	2		R43	(H317)	available
Cyclopentanemethanamine, 2-amino	244-434-0	21544-02-5	0-0.5	R43	Skin (H317) Sens.1	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4 First Aid Measures

4.1 Description of first aid measures

General Advice: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact: Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove material from skin immediately In the case of skin irritation or allergic reactions see a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Protection of First-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2 Most important symptoms/effects, acute and delayed: Hives. Itching. Rashes. Serious eye irritation or damage.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician: May cause sensitization of susceptible persons. Treat symptomatically.

Section 5 Fire Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media: Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media: No information available.

5.2 Special Hazard Arising from the Substance or Mixture:

May cause sensitization by skin contact. Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides and nitrogen oxides.

5.3 Advice for Fire-fighters: As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6 Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Avoid contact with skin, eyes and clothing. Use personal protective equipment. Evacuate personnel to safe areas.

6.2 Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

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6.3 Methods and materials for containment and cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

6.4 Reference to other sections: See Section 12 for additional information.

Section 7 Handling and Storage

7.1 Precautions for safe handling:

Protective measures: Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not take internally.

Hygiene Measures: When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash thoroughly after handling.

7.2 Conditions for safe storage including any incompatibilities: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers.

Section 8 Exposure Controls / Personal Protection

8.1 Control Parameters

Exposure Limits:

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
3-(Triethoxysilyl) propylamine 919-30-2	-	-	-	TWA: 3 ppm TWA: 28 mg/m ³ STEL: 6 ppm STEL: 55mg/m ³	-

8.2 Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas.

8.2.2 Personal protective equipment:

Eye Protection: Tightly fitting safety goggles.

Skin and Body Protection: Impervious clothing.

Hand Protection: Impervious gloves.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Environmental Exposure Controls: Do not allow material to contaminate ground water system.

Section 9 Physical and Chemical Properties

- a) **Physical Appearance:** Orange Paste
- b) **Odor:** No information available
- c) **Odor Threshold:** No data available

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d) pH:	No data available		
e) Melting Point/freezing point:	No data available		
f) Initial Boiling point and boiling range:	No data available		
g) Flash Point:	No data available		
h) Evaporation rate (ether=1):	No data available		
i) Flammability (solid, gas):	No data available		
j) Upper/lower flammability or explosive Limits:	Lower:	N/A	Upper: N/A
k) Vapor Pressure:	No data available		
l) Vapor density (Air=1)	No data available		
m) Relative Density:	No data available		
n) Solubility:	Insoluble in water		
o) Partition coefficient (n-octanol/water):	No data available		
p) Auto-ignition Temperature:	No data available		
q) Decomposition Temperature:	No data available		
r) Viscosity:	4.2 – 5.2 million cP		
s) Explosive Properties:	No information available		
t) Oxidizing Properties:	No information available		

Section 10 Stability and Reactivity

- 10.1 Reactivity:** Not data available
10.2 Chemical Stability: Stable under standard normal conditions.
10.3 Possibility of Hazardous reactions: None under normal processing.
10.4 Conditions to Avoid: Thermal decomposition, do not overheat. Incompatible products.
10.5 Incompatible Materials / Chemicals: Acids. Bases. Amines. Strong oxidizing agents.
10.6 Hazardous Decomposition Products: Phenols. Carbon monoxide (CO). Carbon dioxide (CO₂)

Section 11 Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity

Product Information

Inhalation: No known effect.

Eye Contact: Causes serious eye damage.

Skin Contact: Causes skin irritation. May cause allergic skin reaction

Ingestion: May be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Trade secret	11,400 mg/kg (rat)	-	-
Trade secret	4,556 mg/kg (rat)	-	-
3-(Triethoxysilyl) propylamine	1,780 mg/kg (rat)	4mL/kg (rabbit)	-

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Sensitization: May cause sensitization of susceptible persons. May cause sensitization by skin contact.

Mutagenic Effects: No information available.

Carcinogenic Effects: No information available.

Reproductive Toxicity: No information available.

Developmental Toxicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Aspiration Hazard: No information available.

Section 12 Ecological Information

12.1 Toxicity

Ecotoxicity Effects: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Trade secret	EC50 72 h: 11 mg/L (Scenedesmus capricornutum - fresh water algae)	LC50 96-h: 2 mg/L (Oncorhynchus mykiss - rainbow trout)	-	EC50 48-h: 1.8 mg/L NOEC 21-d: 0.3 mg/L

12.2 Persistence and degradability: No information available

12.3 Bioaccumulative potential:

Chemical Name	Log Pow
Trade secret	3.242

12.4 Mobility in soil: Absorbs on soil

12.5 Results of PBT and vPvB assessment: No information available

12.6 Other adverse effects:

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Trade secret	Group III Chemical	-	-

Section 13 Disposal Considerations

13.1 Waste treatment methods: Dispose of in accordance with local regulations

Uncleaned packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other Information According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

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Section 14 Transport Information

DOT

UN-Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing Group: III

IMDG/IMO

UN-Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing Group: III

RID

UN-Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing Group: III

ADR

UN-Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing Group: III

ICAO

UN-Number: UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing Group: III

IATA

UN-Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing Group: III

ERG Code: 9L

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Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
International Inventories:

TSCA	EINECS/ELI NCS	DSL/NDSL	PICCS	ENCS	IECSC	AICS	KECL
-	-	-	-	-	-	-	-

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

Chemical Safety Assessment: No information available

Section 16 Other Information

Full text of R-phrases referred to under Sections 2 and 3:

R43 - May cause sensitization by skin contact

R34 - Causes burns

R22 - Harmful if swallowed

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R20/22 - Harmful by inhalation and if swallowed

R36/38 - Irritating to eyes and skin

Full text of H-Statements referred to under sections 2 and 3:

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

Key literature references and sources for data: www.ChemADVISOR.com/

Key Legend Information:

N/A - Not Applicable

ND - Not Determined

OSHA - Occupational Safety and Health Administration



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NIOSH – National Institute for Occupational Safety and Health

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006.

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. NRI makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. NRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material.

Rev05 Revision Date 01/10/2018 Aligned Section Headings and Sub headings to match regulatory requirement. Added Original Release Date.