SAFETY DATA SHEET



1. Identification

Dreduct identifier				
Product identifier	Tlam PP HTD			
Other means of identification	None. Industrial use.			
Recommended use Recommended restrictions	None known.			
Manufacturer/Importer/Supplier/Distributor information				
Manufacturer	Laird			
Address	4707 Detroit Ave Cleveland, Ohio 44102			
Talanhana mumhan	USA +1-216-939-2300			
Telephone number Email				
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			
Corporate Office	Laird PLC			
Address	100 Pall Mall, London, SW1Y 5NQ			
Talankana mushan	United Kingdom			
Telephone number	+44 (0)20 7468 4040			
Emergency telephone number	Within USA and Canada: 1-800-424-9300 (Chemtrec). Other Countries: +1-703-527-3887.			
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 according to OSHA 29 CFR 1910.1200.

4. First-aid measures

Inhalation	Not relevant, due to the form of the product.	
Tlam PP HTD		SDS US

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 symptoms/effects, acute and delayed	Not relevant, due to the form of the product.
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	Use fire-extinguishing media appropriate for surrounding materials.
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.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Will burn if involved in a fire.

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

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.

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.		
Skin protection			
Hand protection	Not normally needed.		
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.		
General hygiene considerations	Wash hands after contact.		

9. Physical and chemical properties

Sheeted material.

Physical state	Solid.
Form	Solid.
Color	White.
Odor	Faint.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	Not available.
range	
Flash point	> 400.0 °F (> 204.4 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Negligible.
Relative density	1.5
Solubility(ies)	
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	1.5 g/cc (25 °C)
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	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Metal oxides.
11. Toxicological informat	ion
Information on likely routes of e	xposure

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

Symptoms related to the physical, chemical and toxicological characteristics	Not relevant, due to the form of the product.		
Information on toxicological effe	octs		
Acute toxicity	No adverse effects are expected.		
Skin corrosion/irritation	Not classified.		
Serious eye damage/eye irritation	Not classified.		
Respiratory or skin sensitization			
Respiratory sensitization	Not classified.		
Skin sensitization	Not classified.		
Germ cell mutagenicity	Not classified.		
Carcinogenicity	Not classified. This product is an article.		
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Not listed. NTP Report on Carcinogens			
Not listed. OSHA Specifically Regulated	d Substances (29 CFR 1910.1001-1050)		
Not regulated.			
Reproductive toxicity	Not classified.		
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.		
Chronic effects	No known chronic or acute health risks.		
Further information	None known.		
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 available.		
Bioaccumulative potential	No data available.		
Mobility in soil	The product is insoluble in water and will sediment in water systems.		
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		
13. Disposal consideration	IS		
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 (see: Disposal instructions).		
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

15. Regulatory information

		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) Expor	t Notification (40 CFR 70	7, Subpt. D)		
Not regulated. OSHA Specifically Regulat	ted Substances (29 CFR	1910.1001-1050)		
Not regulated. CERCLA Hazardous Subst Not listed.	tance List (40 CFR 302.4))		
Superfund Amendments and F	Posuthorization Act of 19	186 (SADA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	0		
SARA 302 Extremely haza Not listed.	rdous substance			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
Aluminum oxide		1344-28-1	40 - 50	
Other federal regulations				
Clean Air Act (CAA) Sectio	on 112 Hazardous Air Po	llutants (HAPs) List		
Not regulated.				
Clean Air Act (CAA) Section	on 112(r) Accidental Rele	ase Prevention (40 C	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
(SDWA)	-		known to the State of C	alifornia to cause birth
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(SDWA) IS state regulations US - California Propos	WARNING: This produ defects or other reprod sition 65 - Carcinogens & bisphenol-A-(epichlorohydr	ductive harm. A Reproductive Toxici		
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Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	Yes
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	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	05-January-2017
Revision date	-
Version #	01
HMIS® ratings	Health: 0 Flammability: 1 Physical hazard: 0
NFPA ratings	

List of abbreviations Disclaimer

TWA: Time weighted average.

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.