

SAFETY DATA SHEET FOR LLFA[®] TAPE AND LLFA[®] SMOOTH

1. IDENTIFICATION OF SUBSTANCE OR PREPARATION AND THE COMPANY / UNDERTAKING

Product Name: LLFA[®] Tape and LLFA[®] Smooth
Trade Name: Dipoly Siloxane
Product Code: R1-5-8 series
Chemical Name / Synonyms: Silicone Rubber MIL A-A-59163
Most Common Intended Uses: Electrical splice protection, electrical insulation, mechanical seal.
Manufacturers Identification: GTG Engineering, Inc.
PO Box 11182; Southport; North Carolina; 910-457-0068; USA
www.gtgenengineering.com
Distributors Identification: GTG Europe Ltd
Unit 1, Empire Way; Bristol Road; Gloucester; GL2 5HY; UK
Emergency Telephone: USA: +1-800-343-4062

2. COMPOSITION / INFORMATION OF INGREDIENTS

Substances presenting a Health or Environmental hazard within the meaning of the Chemicals (Hazard Information & Packaging) Regulations 1994 as amended.

(Typical Values – Not Specifications)

Hazardous Components	Chemical Name	CAS #	%	
	Octamethylcyclo - tetrasiloxane	556-67-2	<2	
	Boric Acid	10043-35-3	<1	
	Amorphous Fumed Silica	112945-52-5	<40	**Dust Hazard
Perkadox PD-50S-PS-A	Di(2,4-dichlorobenzoyl) peroxide	133-14-2	<2	

ALL OTHER INGREDIENTS ARE NON HAZARDOUS AND ARE NOT LISTED SINCE PROPRIETARY.

** This material is encapsulated in a polymeric binder which eliminates airborne exposure to Dust Hazard

3. HAZARDS IDENTIFICATION

Emergency Overview This product is a stable, chemically inert, opaque rubber material that has no known health effects in its final state.
Primary Route of Exposure Inhalation ◦ Eye Contact ◦ Skin Contact ◦ Ingestion
Threshold Limit Value N/A
Potential Acute Health Effects None Known
Potential Chronic Health Effects None Known

Inhalation of airborne contamination generated during heat cure, or combustion should be avoided.

4. FIRST AID MEASURES

Eye Contact: Eye contact is not expected to occur during normal use of final product. No adverse health effects are expected from eye contact.
Skin Contact: No adverse health effects are expected from skin contact. Contact with skin during final product use is not expected to result in significant irritation.
Ingestion: Due to the physical state of this material, ingestion is unlikely to occur. No adverse health effects are expected from swallowing of the final product.
Inhalation: This product may have a characteristic odour; however, no adverse health effects are anticipated. Health effects from inhalation are not expected unless the product is in combustion. If products of combustion are inhaled, remove to fresh air. Seek medical attention if respiratory irritation occurs, or breathing becomes difficult.

5. FIRE FIGHTING MEASURES

<i>Flash Point</i>	<i>Units</i>	<i>Method</i>	<i>Flammable Limits</i>	<i>LEL</i>	<i>UEL</i>
N/A	N/A	N/A	N/A	N/A	N/A

Extinguishing Media: Use standard fire fighting techniques to extinguish fires involving this material. DRY CHEMICAL, CARBON DIOXIDE, FINE WATER SPRAY.

Special Fire-Fighting Procedures: As in any fire, prevent human exposure to fire, smoke fumes, or products of combustion. Evacuate non-essential personnel from fire area. Fire fighters should wear full face, self contained breathing apparatus.

Unusual Fire and Explosion Hazards: None Known

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

Remove material from floor. Dispose of material if contaminated.

Waste disposal method:

Dispose of in accordance with all local, state, federal and/or provincial regulations.

7. HANDLING & STORAGE

Precautions to be taken in handling and storing:

No required handling or storage pre-cautions. Ideally, store in the re-sealable bag provided. Recommend storage in a cool, dry, well ventilated area. Apply stock rotation.

Engineering Controls

As dictated by use process.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection	Not normally required except for products of combustion.
Eye & Face Protection	Safety glasses or normal departmental safety requirements.
Protective Gloves	Not normally required.
Other Protective Equipment	Use good personal hygiene.
Ventilation	Not normally required. Local ventilation is recommended for high temperature processes.

9. PHYSICAL DATA

Boiling Point	N/A	Units	N/A
Vapour Pressure (mm Hg.)	N/A		
Vapour Density (air=1)	N/A		
Solubility In Water	Not Soluble		
Appearance	Rubbery Solid		
Specific Gravity(H2O=1)	1.178		
Melting Point	N/A	Units	N/A
Evaporation Rate	N/A		
% Volatiles (by volume)	N/A		
Odour	Sweet Odour		

10. STABILITY & REACTIVITY DATA

Conditions Causing Instability	Product is stable
Incompatibility (materials to avoid)	None known.
Hazardous Decomposition Products	Carbon Monoxide, Carbon Dioxide, Silicon Dioxide
Hazardous Polymerization	Will Not Occur
Special Sensitivity	None

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: This material is not considered a carcinogen by IARC or NTP and is not regulated as a carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Testing performed on the product shows compliance to BS6920: Part1: 2000 - "Suitability of non-metallic products for use in direct contact with water intended for human consumption with regard to their effect on the water." The results show that it can be fully submersed up to 85°C with no effect on the quality of the water.

These test results indicate that there is no aquatic toxicity nor is there any risk to environmentally relevant organisms.

MOBILITY

There is no potential for the substance, if released to the environment, to transport to groundwater or far from the site of release.

PERSISTENCE AND DEGRADABILITY

The degradation half life of the product is not known.

Test results from the NFX 70-100 "Analysis of Gaseous Effluents Test" indicate a very low C.I.T (conventional index of toxicity) value: 5.20. If the product is incinerated, the resultant gaseous components are of low risk to the environment.

BIOACCUMULATIVE POTENTIAL

There is no potential of the substance to accumulate in biota and pass through the food chain.

K_{ow} N/A

Biological Concentration Factor N/A

OTHER ADVERSE EFFECTS

There is no potential of adverse environmental effects from the use of the substance. It has no ozone depletion potential. It has no photochemical ozone creation potential. It does not have the potential to accelerate global warming.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? **NO**

14. TRANSPORTATION INFORMATION

DOT Road Shipment Information (49 CFR 172.101)	Not subject to DOT.
Ocean Shipment (IMDG)	Not subject to IMDG code.
Air Shipment (IATA)	Not subject to IATA regulations.
EPA Hazard Waste:	N/A
OSHA Hazard Class:	N/A
WHMIS Classification:	No known WHMIS class
NFPA/HMIS Classification:	HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

15. REGULATORY INFORMATION

CERCLA

The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Centre for releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4 (for CERCLA 102).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS #	Maximum Concentration (Wt. %)
Silica, amorphous, fumed, crystalline-free	112945-52-5	40%

SARA Title III, section 311/312

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311, and 312).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS #	Maximum Concentration (Wt. %)
Silica, amorphous, fumed, crystalline-free	112945-52-5	40%

SARA Title III, section 313

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS #	Maximum Concentration (Wt. %)
Silica, amorphous, fumed, crystalline-free	112945-52-5	40%

TSCA

The components of this mixture are listed in the Toxic Substance Control Act Inventory of Chemical Substances.

This product does not contain any chemicals that would require export notification under Section 12(b) of the TSCA regulation.

16. OTHER INFORMATION

The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information & Packaging) Regulations. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of issues of the product are outside the suppliers control the user is responsible for ensuring that the requirements of relevant legislation are complied with. TP-21

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further Information and relevant advice can be found in:-

The Control of Substances Hazardous to Health Regulations 1994 (SI 1994:3246)

The Manual Handling Operations Regulations 1992 (SI 1992:2793)

Storage of Packaged Dangerous Substances HS (G) 71

The Environmental Protection (Duty of Care) Regulations 1992 (SI 1988: 2839)

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