



MATERIAL SAFETY DATA SHEET

According to ISO 11014-1

MSDS NA27-AF/700

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Taro Distributors PTY LTD -Authorized Dealer in Australia

Address: 3/92 Bryant Street - Padstow. - N.S.W. 2211

Phone 02-97743011 - Fax 02-9774288 - Email sales@taro.com.au

SECTION 01 – PRODUCT AND COMPANY IDENTIFICATION

IDENTITY: Brake Lining – **NA27-AF/700**

Chemical Family Name: Non Asbestos Friction Material

Use for the product: In brake application

Manufacturer's Name: FRAS-LE S.A

Address: RS 122 – Km 66 – nº 10945 – Bairro Forqueta – Caxias do Sul – 95010.550 – RS – Brasil

Telephone Number for Information: (54) 3289-1000 - Fax (54) 3289-2021.

SECTION 02 – INGREDIENTS AND HAZARDOUS

Hazardous Components

ACGIH –TLV/ **NOHSC**- TWA *

Inorganic Fiber	1f/cm ³
Metallic Fiber	NA
Organic Fiber	10 mg/m ³
Coke, Graphite	2 mg/m ³
Rubber	NA
Phenolic Resin	5 ppm
Metallic Oxides	10 mg/m ³
Non Fibrous Silicate Filler	2 mg/m ³
Other Fillers	10 mg/m ³

Note: This is an asbestos free product.

SECTION 03 – HAZARDS IDENTIFICATION

Route(s) of Entry: Inhalation: yes Skin: yes Ingestion: no

Health Hazards (Acute and Chronic):

Some persons may be sensitive to phenolic resins and develop dermatitis-type problems. Overexposure of dust of silica, graphite, and coke can produce pneumoconiosis and lung damage.

SECTION 04 – FIRST-AID MEASURES

Emergency and First Aid Procedures:

Should not be necessary from reasonable handling of this product.

SECTION 05 – FIRE-FIGHTING MEASURES

Flash Point : NA

Flammable Limits : NA

Extinguishing Media: water fog, CO2 foam as appropriate for surrounding materials.

Special Fire Fighting Producers :

Positive pressure self-contained breathing apparatus should be used. Personnel not having suitable respiratory protection should leave the area to prevent significant exposure to toxic combustion gases from any source.

SECTION 06 – ACCIDENTAL RELEASE MEASURES

Spill and leak procedures : NA

SECTION 07 – HANDLING AND STORAGE

Precautions to be taken in handling and storage:

Sparks may be produced under some grinding conditions. Grinding, drilling, milling, can result in the release of

Hazards polymerization: will not occur Condition to avoid : NK

Hazardous Decomposition Products: incomplete combustion will create carbon monoxide and dioxide

SECTION 13 – DISPOSAL CONSIDERATION

Waste Disposal:

Scrap pieces should be disposed of in a way to prevent airborne dust.

Wastes should be placed in sealed container marked with appropriate warning label.

Check local, state and federal regulations.

SECTION 14 – TRANSPORT INFORMATION

Shipping name: Non – regulated material according to 49 CFR 172. 101 part 171

Hazard Class: Not sublet to DOT Hazardous Material Registry.

SECTION 16 – OTHER INFORMATION

Maintain good housekeeping practices.

Employees should be properly instructed of control measures as indicated above when there is a need for it.

The amount of dust produced should be controled, being necessary the use of vacuum cleaning.

* **This product is Non- Hazardous according to health and safety standards, as follows :**

ACGIH TLV-TWA - American Conference of Governmental Industrial Hygienists - 2000 Edition

NOHSC - TWA – National Occupational Health and Safety Commission

NA – Not Available

NK – Not Known

Prepared: Raw material Quality Analyst Approved: Research and Development Manager