Safety Data Sheet
LBR 4000 - LBR 4010.
PTFE+LBR

Safety Data Sheet dated 7/3/2013, version 1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Mixture identification:

Trade name: LBR 4000 - LBR 4010.

Trade code: PTFE+LBR

Semifinished PTFE Products.

Field of activity: chemical, electrical and mechanical industry

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

Recommended use:

Industrial

1.3. Details of the supplier of the safety data sheet

Company:

GAPI S.p.A. Divisione PTFE

Stabilimento di produzione

via Tolari, 12

24060 Gandosso (BG) Italia

tel +39-035834268

fax +39-035834275

Competent person responsible for the safety data sheet:

Information MSDS e-mail: gapisede@gapigroup.com

web site: www.gapigroup.com

1.4. Emergency telephone number

tel +39-035834268

fax +39-035834275

2. HAZARDS IDENTIFICATION

The product is an inert polymer, in usual condition harmful effects for man are not knowed.
The primary hazard associated with these polymers is the inhalation of fumes from overheating or burning heating PTFE above 300 degrees C may liberate a fine particulate fume and toxic gases. These decomposition products may initially produce chest tightness or pain, chills, fever, nausea, with shortness of breath, cough, wheezing and progression into pulmonary oedema.

2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

None.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The mixtures doesn't represent a danger for the health for inhalation and contactwith skin in the form in which is commercialised, in how much the component is lost and completely incorporated in the basic polymer the labeling is not applied. (DIR 2001/59/CEE All. VI cap.9.3).

No labeling is required.

The mixtures containing polymers and those containing elastomers, although classified as hazardous under the criteria of Appendix 1 section 1.3.4 CLP, does not require a label conforming to Annex 1 as it does not present a danger either to human health by inhalation, ingestion or skin contact, or the aquatic environment in the form in which they are placed on the market.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

40% - 50% Polytetrafloroethylene

CAS: 9002-84-0

substance with a Community workplace exposure limit

Other non-hazardous components:

40% - 60% Bronze

powder alloys of copper CAS:7440-50-8

powder alloys of tin CAS:7440-31-5

4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water for at least 10 minutes.

In case of Ingestion:

No specific intervention is indicated as compounds is not likely to be hazardous by ingestion.
Obtain medical attention if necessary.

In case of Inhalation:

It is not dangerous under normal conditions.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:

None

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:
Chemical powder.
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters

If a flame is applied to the material it will ignite but if the flame is removed then combustion ceases. Combustion or thermal decomposition will evolve very toxic and corrosive vapours (ex. HF and COF2)
wear self-contained apparatus. Wear full protective equipment (antiacid).

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust.
Keep away from unguarded flame, sparks, and heat sources.

6.2. Environmental precautions

Try to prevent the material from entering drains or water courses.
Recover the product for re-use if possible, or for elimination in accordance within the regulation.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.
Do not eat or drink while working.
Use gloves and protective clothing.
Avoid to use material at high temperature (>300℃) and care should be taken to prevent inhalation of fume.

Incompatible materials:

None in particular.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from unguarded flame, sparks, and heat sources.
Keep away from flammable materials.
Keep away from incompatible materials (see to paragraph 10).

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Polytetrafloroethylene - CAS: 9002-84-0

TLV TWA - HF=2.6 mg/m3, COF2=5.4mg/m3

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Wear safety glasses.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Wear rubber gloves.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance and colour:	SOLID, refer to technical specification.
Odour:	N.A.

Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	Refer to technical specification.
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.
keep away from flammable materials.
Keep away from melted alkalis metal.

10.6. Hazardous decomposition products

Thermal decomposition started up to 250℃.
At high temparature (>350℃) thermal decomposition will evolve very toxic and corrosive gases (HF and COF2)

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

Polytetrafloroethylene - CAS: 9002-84-0

Toxicity of the pyrolysis products

LC50 (inhalation, 30 min. rat)=3500 mg/m3 at 625℃. LC50 (inhalation, 5 min. rat)=2700 mg/m3 at 800℃.

copper - CAS: 7440-50-8
Occupational exposure limits ACGIH 2005
0.2 mg/m3 (fumes)
1.0 mg/m3(dusts and mists).

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

12. ECOLOGICAL INFORMATION

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
N.A.

12.2. Persistence and degradability
None
N.A.

12.3. Bioaccumulative potential
N.A.

12.4. Mobility in soil
N.A.

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects
None

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

14.1. UN number

14.2. UN proper shipping name
N.A.

14.3. Transport hazard class(es)
N.A.

14.4. Packing group
N.A.

14.5. Environmental hazards
N.A.

14.6. Special precautions for user
N.A.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
N.A.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP), Regulation (CE) n.790/2009.
Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents).
1999/13/EC (VOC directive)

15.2. Chemical safety assessment

No

16. OTHER INFORMATION

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
CCNL - Appendix 1
Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
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