

Safety Data Sheet

**FE1000NA, FE1000NL, LN501, PTFEPOR, PTFELF
PTFE FE1000**

Safety Data Sheet dated 22/6/2017, version 7

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

1.1. Product identifier

Identification of the substance

Trade name: FE1000NA, FE1000NL, LN501, PTFEPOR, PTFELF

Trade code: PTFE FE1000

Field of activity: Dust for chemical, electrical and mechanical industry

CAS number: 9002-84-0

The transition time according to REACH Regulation, Article 23 is still not expired.

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

(8:00 – 17:00)

2. HAZARDS IDENTIFICATION

The product is an inert polymer, in usual condition harmful effects for man are not known.

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

EC regulation criteria 1272/2008 (CLP):

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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.

2.3. Other hazards

No other hazards

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Identification of the substance
 Chemical characterization: Polytetrafluoroethylene
 Trade code: PTFE FE1000
 CAS number: 9002-84-0

Qty	Name	Ident. Number	Classification
100 %	Polytetrafluoroethylene	CAS: 9002-84-0	

3.2. Mixtures

N.A.

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:

CO₂, foam, dry chemical, water spray according to the materials involved in the 'fire

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

Move undamaged containers from immediate hazard area if it can be done safely.

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 (antacid).

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.

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See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

none. Material is basically inert.

6.4. Reference to other sections

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.

See also section 8 for recommended protective equipment.

Use gloves and protective clothing.

Avoid to use material at high temperature (>300°C) and care should be taken to prevent inhalation of fume.

7.2. Conditions for safe storage, including any incompatibilities

None in particular.

Keep away from unguarded flame, sparks, and heat sources.

Keep away from flammable materials.

Keep away from incompatible materials (see to paragraph 10).

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

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

Polytetrafluoroethylene - 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

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Environmental exposure controls:

None

Appropriate engineering controls:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance and colour: SOLID, WITHE
 Odour: inodor
 Odour threshold: N.A.
 pH: N.A.
 Melting point / freezing point: 327 ^C 335^C
 Initial boiling point and boiling range: N.A.
 Solid/gas flammability: N.A.
 Upper/lower flammability or explosive limits: 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

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^C.

At high temperature (>350^C) thermal decomposition will evolve very toxic and corrosive gases (HF and COF2)

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11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information of the substance:

Polytetrafluoroethylene - CAS: 9002-84-0

Toxicity of pyrolysis products

LC50 (inalation, 30 min. rat)=3500 mg/m³ at 625°C. LC50 (inalation, 5 min. rat)=2700 mg/m³ at 800°C.

Set out below is the toxicological information relating to the substance:

- 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.

Do not use when plants are in flower: the product is toxic for bees.

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

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

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- 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 Marpol and the IBC Code
N.A.

15. REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 2000/39/EC (Occupational exposure limit values)
 - Regulation (EC) n. 1907/2006 (REACH)
 - Regulation (EC) n. 1272/2008 (CLP)
 - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 - Regulation (EU) n. 453/2010 (Annex II)
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 CLP)
 - Regulation (EU) n. 487/2013 (ATP 4 CLP)
 - Regulation (EU) n. 944/2013 (ATP 5 CLP)
 - Regulation (EU) n. 605/2014 (ATP 6 CLP)
 - Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

- Directive 2012/18/EU (Seveso III)
- Regulation (EC) nr 648/2004 (detergents).
- Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

- Seveso III category according to Annex 1, part 1
- None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the substance.

16. OTHER INFORMATION

Paragraphs modified from the previous revision:

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
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6. ACCIDENTAL RELEASE MEASURES
7. HANDLING AND STORAGE
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9. PHYSICAL AND CHEMICAL PROPERTIES
10. STABILITY AND REACTIVITY
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION
16. OTHER INFORMATION

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

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