

Created: 21.02.2012, Revision 17.02.2012

Version 02. Supersedes version: 01

Page 1 / 11

SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

FOMO® 1K -PU-Foam Var. J

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

1.2.1 Relevant uses

For filling, fixing and insulating gaps and cavities.

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company	JSC "Tegra state" Kirtimu str. 67 02244 Vilnius, Lithuania Tel.: +370 5 266 1167 Fax.: +370 5 266 1167 E-mail: info@tegra.lt www.tegrastate.eu
---------	--

Address enquiries to

Technical information	info@tegra.lt
Safety Data Sheet	info@tegra.lt

1.4 Emergency phone

Advisory body	
Company	112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal word

DANGER

Flam. Aerosol 1 - H222 Extremely flammable aerosol.
Carc. 2 - H351 Suspected of causing cancer.
STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 4 - H413 May cause long lasting harmful effects to aquatic life.
Lact. - H362 May cause harm to breast-fed children.
Eye Irrit. 2 - H319 Causes serious eye irritation.
Skin Irrit. 2 - H315 Causes skin irritation.
STOT SE 3 - H335 May cause respiratory irritation.
Skin Sens. 1 - H317 May cause an allergic skin reaction.
Resp. Sens. 1 - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Classification according to conversion table Annex VII 1272/2008/EC

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols



Extremely flammable



Harmful

R-phrases

R 12: Extremely flammable.
R 36/37/38: Irritating to eyes, respiratory system and skin.
R 40: Limited evidence of a carcinogenic effect.
R 42/43: May cause sensitisation by inhalation and skin contact.
R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.
R 53: May cause long-term adverse effects in the aquatic environment.
R 64: May cause harm to breastfed babies.

2.2 Label elements

Labelling according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols



Extremely flammable



Harmful

Contains:

Methylenediphenyl diisocyanate

R-phrases

R 12: Extremely flammable.
R 36/37/38: Irritating to eyes, respiratory system and skin.
R 40: Limited evidence of a carcinogenic effect.
R 42/43: May cause sensitisation by inhalation and skin contact.
R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.
R 53: May cause long-term adverse effects in the aquatic environment.
R 64: May cause harm to breastfed babies.

S-phrases

S 23.3: Do not breathe vapour.
S 36/37: Wear suitable protective clothing and gloves.
S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 51: Use only in well-ventilated areas.
S 56: Dispose of this material and its container to hazardous or special waste collection point.

Special labelling

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
Keep out of the reach of children.
Contains isocyanates. Observe manufacturer's instructions.
Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

2.3 Other hazards

Physico-chemical hazards

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Product-type:

The product in question is a mixture.

Range [%]	Substance
10 - <15	Tris(2-chloro-1-methylethyl) phosphate CAS: 13674-84-5, EINECS/ELINCS: 237-158-7 GHS/CLP: Acute Tox. 4 - H302 EEC: Xn, R 22
1 - <20	Dimethyl ether CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8 GHS/CLP: Flam. Gas 1 - H220 EEC: F+, R 12
1 - <20	iso-Butane CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0 GHS/CLP: Flam. Gas 1 - H220 - Press. Gas (*) - H280 EEC: F+, R 12
5 - <10	Methylenediphenyl diisocyanate CAS: 26447-40-5, EINECS/ELINCS: 247-714-0, EU-INDEX: 615-005-00-9 GHS/CLP: Carc. 2 - H351 - Acute Tox. 4 - H332 - STOT RE 2 - H373 - Eye Irrit. 2 - H319 - STOT SE 3 - H335 - Skin Irrit. 2 - H315 - Resp. Sens. 1 - H334 - Skin Sens. 1 - H317 EEC: Xn, R 20-36/37/38-40-42/43-48/20
1 - <2,5	Alkanes, C14-17, chloro CAS: 85535-85-9, EINECS/ELINCS: 287-477-0, EU-INDEX: 602-095-00-X GHS/CLP: Lact. - H362 - Aquatic Acute 1 - H400 - Aquatic Chronic 1 - H410 - EUH066 EEC: N, R 64-66-50/53
1 - <20	Propane CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5 GHS/CLP: Flam. Gas 1 - H220 - Press. Gas (*) - H280 EEC: F+, R 12

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Remove contaminated soaked clothing immediately and dispose of safely.
Inhalation	Remove the victim into fresh air and keep him calm. In the event of symptoms seek for medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No informations available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide. Water spray jet. Dry powder. Foam.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.
Hydrogen chloride (HCl).
Hydrogen cyanide (HCN).
Nitrogen oxides (NO_x).
Bursting aerosols can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See section 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Keep away from all sources of ignition - Refrain from smoking.
Vapours can form an explosive mixture with air.

7.2 Conditions for safe storage, including any incompatibilities

Do not store together with oxidizing agents.
Keep container in a well-ventilated place.
Protect from heat/overheating.
Keep in a cool place, heat causes increase in pressure and risk of bursting.

7.3 Specific end use(s)

See product use, section 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
5 - <10	Methylenediphenyl diisocyanate
	CAS: 26447-40-5, EINECS/ELINCS: 247-714-0, EU-INDEX: 615-005-00-9
	Long-term exposure: 0,02 mg/m ³ , as NCO, Sen
	Short-term exposure (15-minute): 0,07 mg/m ³
1 - <20	Dimethyl ether
	CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8
	Long-term exposure: 400 ppm, 766 mg/m ³
	Short-term exposure (15-minute): 500 ppm, 958 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Range [%]	Substance / EC LIMIT VALUES
1 - <20	Dimethyl ether
	CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8
	Eight hours: 1000 ppm, 1920 mg/m ³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	Butyl rubber, >120 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Light protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Clean skin thoroughly after work, apply skin cream. Use barrier skin cream. Remove contaminated soaked clothing immediately and dispose of safely.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P2.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See section 6+7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	aerosol
Color	not determined
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	reacts with water
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Autoignition temperature [°C]	not applicable
Decomposition temperature	not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Because of the high vapour pressure, containers are liable to burst if temperature rises.
Formation of explosive gas/air mixtures.

10.4 Conditions to avoid

See section 7.2.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Created: 21.02.2012, Revision 17.02.2012

Version 02. Supersedes version: 01

Page 7 / 11

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
1 - <2,5	Alkanes, C14-17, chloro, CAS: 85535-85-9 LD50, oral, Rat: > 4000 mg/kg (IUCLID).
1 - <20	Dimethyl ether, CAS: 115-10-6 LC50, inhalative, Rat: 308,5 mg/L (IUCLID).
1 - <20	iso-Butane, CAS: 75-28-5 LC50, inhalative, Rat: 570000 ppm (IUCLID).
10 - <15	Tris(2-chloro-1-methylethyl) phosphate, CAS: 13674-84-5 LD50, oral, Rat: > 500 mg/kg. LC0, inhalative, Rat: > 7,19 mg/l 4h. LD50, dermal, Rat: > 2000 mg/kg.
5 - <10	Methylenediphenyl diisocyanate, CAS: 26447-40-5 LD50, oral, Rat: > 10.000 mg/kg. LC50, inhalative, Rat: ~ 0,493 mg/l 4h. LD50, dermal, Rabbit: > 10.000 mg/kg.
1 - <20	Propane, CAS: 74-98-6 LC50, inhalative, Rat: 658 mg/L (IUCLID).

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

The product was classified on the basis of the calculation procedure of the preparation directive.

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
1 - <2,5	Alkanes, C14-17, chloro, CAS: 85535-85-9 EC50, (48h), Daphnia magna: 0,006 mg/l. M = 100 LC50, (96h), fish: > 5000 mg/l (IUCLID).
1 - <20	Dimethyl ether, CAS: 115-10-6 NOEC, (48h), Daphnia magna: >4000 mg/L (IUCLID). NOEC, (96h), Poecilia reticulata: >4000 mg/L (IUCLID).
10 - <15	Tris(2-chloro-1-methylethyl) phosphate, CAS: 13674-84-5 LC50, (96h), Brachidanio rerio: 56,2 mg/l. EC50, (48h), Daphnia sp.: 131 mg/l.
5 - <10	Methylenediphenyl diisocyanate, CAS: 26447-40-5 LC0, (96h), fish: > 1000 mg/l. EC0, (72h), Scenedesmus subspicatus: 1640 mg/l (OECD 201). EC0, (24h), Daphnia magna: > 500 mg/l.

Created: 21.02.2012, Revision 17.02.2012

Version 02. Supersedes version: 01

Page 8 / 11

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

No classification due to toxicological investigations.

EC50: Daphnia magna: > 1000 mg/l

The product contains organically bound halogen in accordance with the formulation.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended) 160504* gases in pressure containers (including halons) containing dangerous substances
080501*

Contaminated packaging

Untaminated packaging may be taken for recycling.





Waste no. (recommended) 150110*
150104

SECTION 14: Transport information

14.1 UN number

See section 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID	UN 1950 AEROSOLS 2.1
- Classification Code	5F
- Label	
- ADR LQ	11
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D)
Inland navigation (ADN)	UN 1950 AEROSOLS 2.1
- Classification Code	5F
- Label	
Marine transport in accordance with IMDG	UN 1950 Aerosols 2.1 -
- EMS	F-D, S-U
- Label	
- IMDG LQ	11
Air transport in accordance with IATA	UN 1950 Aerosols, flammable 2.1
- Label	

14.3 Transport hazard class(es)

See section 14.2 in accordance with UN shipping name

14.4 Packing group

See section 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See section 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under section 6 to 8.

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

not determined

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2012).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other informations

16.1 R-phrases (section 03)

R 12: Extremely flammable.
R 64: May cause harm to breastfed babies.
R 66: Repeated exposure may cause skin dryness or cracking.
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 20: Harmful by inhalation.
R 36/37/38: Irritating to eyes, respiratory system and skin.
R 40: Limited evidence of a carcinogenic effect.
R 42/43: May cause sensitisation by inhalation and skin contact.
R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.
R 22: Harmful if swallowed.

16.2 Hazard statements (section 03)

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H362 May cause harm to breast-fed children.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
H351 Suspected of causing cancer.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure through inhalation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H302 Harmful if swallowed.

16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value – time-weighted average
TLV®/STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.4 Other informations

Observe employment restrictions for people **yes**

VOC (1999/13/CE) 15 - 22%

Modified position

Section 11 been added: Toxicological data of complete product are not available.

Section 11 been added: The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Section 12 been added: The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Section 2 been added: Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Section 12 been added: Based on all available information not to be classified as PBT or vPvB respectively.