

SAFETY DATA SHEET

Promast Fire-Foam

According to Regulation (EU) No 1907/2006 (REACH)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Promast Fire-Foam

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

Identified uses Filling and fixing.

1.3. Details of the supplier of the safety data sheet

Manufacturer Promast Kimya San Tic AS
Sanayi Mah. Şakayık Sk. No:9,
İzmit, Kocaeli, TURKEY
Tel: +90 (262) 335 41 82
Fax: +90 (262) 335 41 83
E-mail: info@promast.com.tr

Contact Person Not available.

1.4. Emergency telephone number

PROMAST: +90-262-3354182

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Aerosol 1 – H222, H229
Human health Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334
Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335
Environment Not classified.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.



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Precautionary Statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing vapour/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container in accordance with national regulations.

Supplemental labelling information

EUH204	Contains isocyanates. May produce an allergic reaction.
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Contains

4,4'-methylenediphenyl diisocyanate

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Name	EC No.	CAS No.	Content%	Classification (EC 1272/2008)
Propane	200-827-9	74-98-6	1 – 5	Flam. Gas 1 - H220
Butane	203-448-7	106-97-8	5 – 10	Flam. Gas 1 - H220
Isobutane	200-857-2	75-28-5	1 – 5	Flam. Gas 1 - H220
dimethyl ether	204-065-8	115-10-6	5 – 10	Flam. Gas 1 - H220
4,4'-methylenediphenyl diisocyanate	202-966-0	101-68-8	5 – 10	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

The Full Text for all Hazard Statements are Displayed in Section 16.

Composition Comments

- The data shown are in accordance with the latest EC Directives.
- See please section 8 for exposure limits.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.



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Inhalation

In case of inhalation of spray mist: Move person into fresh air and keep at rest. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues.

Skin contact

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation

Dizziness. Allergy or asthma symptoms or breathing difficulties.

Ingestion

Nausea, vomiting.

Skin contact

May cause an allergic skin reaction. Causes irritation.

Eye contact

Causes eye irritation.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Water spray, dry chemical powder, carbon dioxide.

Unsuitable extinguishing media

DO NOT use water jet.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Vapours may form explosive mixtures with air.
Aerosol cans may explode in a fire.

Specific hazards

In case of fire, toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours. Avoid breathing fire vapours. Move container from fire area if it can be done without risk. Be aware of danger for fire to restart. Dike and collect extinguishing water.

Protective equipment for fire-fighters

Face mask, protective gloves and safety helmet. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Remove all ignition sources. No smoking. Ventilate. Provide adequate ventilation. Do not breathe vapour/spray. Avoid contact with skin and eyes.

6.2. Environmental precautions

Avoid discharge into water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped, evacuate area.

6.4. Reference to other sections

For personal protection, see section 8.

See section 11 for additional information on health hazards.

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours and spray mists. Provide good ventilation. Protect against direct sunlight.

7.2. Conditions for safe storage, including any incompatibilities

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Protect against physical damage and/or friction. Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry and cool place.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Butane	WEL	600 ppm	1450 mg/m ³	750 ppm	1810 mg/m ³	---
Propane	WEL	1000 ppm	1800 mg/m ³	----	2.8 mg/m ³	
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	WEL		0.02 mg/m ³ (Sen)		0.07 mg/m ³ (Sen)	
DIMETHYL ETHER	WEL	400 ppm	766 mg/m ³	500 ppm	958 mg/m ³	---

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.



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Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

Respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection

Use protective gloves made of: Rubber, neoprene or PVC. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Isolate contaminated clothing and wash before reuse.

Skin protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Aerosol foam.
Colour	No data available.
Odour	No data available.
Odor threshold	No data available.
pH Value	No data available.
Melting Point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Solubility	No data available.
Flammability (solid, gas)	No data available.
Auto-ignition Temperature	No data available.
Vapour pressure	No data available.
Relative Density	No data available.
Evaporation rate	No data available.
Partition Coefficient (N-octanol/water)	No data available.
Viscosity (Dynamic / Kinematic)	No data available.

9.2. Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.



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10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

10.5. Incompatible materials

Strong oxides.

10.6. Hazardous decomposition products

Fire creates: Toxic Gasses / vapors / fumes of: Ammonia or Amines. Carbon Monoxides (CO). Oxides of: Nitrogen, Hydrogen Cyanide (HCN), Nitrous Gases (Nox).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : No data available.

Skin corrosion/Irritation

Causes skin irritation.

Serious Eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - In Vitro/ In Vivo

No data available.

Carcinogenicity

Suspected of causing cancer.

Reproductive Toxicity – Fertility/ Development

No data available.

Specific target organ toxicity - single exposure:

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure:

No data available.

Inhalation

Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness.

Ingestion

May cause nausea, headache, dizziness and intoxication.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.



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12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The product is not soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.
Empty containers must not be burned because of explosion hazard.

SECTION 14: TRANSPORT INFORMATION

General Limited quantities derogation may be applicable to this product, please check transport documents.

14.1. UN number

UN No. (ADR/RID/ADN)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950

14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

14.3. Transport hazard class(es)

ADR/RID/ADN Class	2.1
ADR/RID/ADN Class	Class 2: Gases.
ADR Label No.	2.1
IMDG Class	2.1
ICAO Class/Division	2.1
Transport Labels	



14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

EMS	F-D, S-U
Tunnel Restriction Code	(D)



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

No information required.

SECTION 15: REGULATORY INFORMATION

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

Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Information Sources

This SDS is prepared based on the information received from the product owner.

Revision Comments

This is first issue.

Issued By

Büşra Tarakçı/CRAD - Sertifikalı GBF Hazırlayıcısı Sertifika No ve tarihi: 01.67.12/28.12.2015
gbf@crad.com.tr +90 216 3354600

Hazard Statements In Full

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.