



Abesco FP200 FR Foam

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

1.1 Product Identifier

Trade Name Abesco FP200 FR Expanding Foam
Description Fire Retardant B1 Polyurethane Foam In Hand Held Aerosol Dispenser

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

No further relevant information available

1.3 Details of the supplier of the safety data sheet

Supplier Abesco Fire LLC
9777 Satellite Blvd, Unit 120
Orlando, FL 32837
USA
Phone Number 407-851-3300
Fax Number 407-851-3388
E-mail ustechnical@abesco.net

1.4 Emergency Telephone number: In case of emergency, consult physician.

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Flam. Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurized container. May burst if heated.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.
Hazard pictograms

ISSUE DATE	August 12, 2015	REVISION	2	REF	SDS002
------------	-----------------	----------	---	-----	--------



Abesco FP200 FR Foam

Safety Data Sheet



GHS02



GHS07



GHS08

Signal word Danger

Hazard-determining components of labeling:

diphenylmethanediisocyanate, isomers and homologues

Hazard Statements

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

Precautionary Statements

- P102 Keep out of the reach of children.
P201 Obtain special instructions before use.
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.
P284 In case of inadequate ventilation wear respiratory protection (a protective mask with an appropriate gas filter – i.e. type A1 according to standard EN 14387).
P280 Wear protective gloves/protective clothing/eye protection.
P260 Do not breathe vapours/spray.
P302+P352 IF ON SKIN: Wash with plenty of water/soap
P305+351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50° C / 122 ° F.
P501 Dispose of container in accordance with local/regional/national/international regulations.

Additional information:

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

ISSUE DATE	August 12, 2015	REVISION	2	REF	SDS002
------------	-----------------	----------	---	-----	--------



Abesco FP200 FR Foam

Safety Data Sheet

· Classification system:

· NFPA ratings (scale 0 - 4)

Health = 2
Fire = 0
Reactivity = 3







· HMIS-ratings (scale 0 - 4)

Health = *2
Fire = 0
Reactivity = 3

3. COMPOSITION / INFORMATION ON THE COMPONENTS

3.2 Chemical characterization: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:	CAS	Range (%)
diphenylmethanediisocyanate, isomers and homologues  Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;  Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319, Skin Sens. 1, H317; STOT SE 3, H335	9016-87-9	40-45%
tris(2-chlorisopropyl)-phosphate  Acute Tox. 4, H302	13674-84-5	15-25%
1,1,1,2-Tetrafluoroethane	811-97-2 EINECS: 212-377-0	10-20%
dimethyl ether  Flam. Gas 1, H220; Press. Gas C, H280	115-10-6 EINECS: 204-065-8	1-5%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

4.1 General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

ISSUE DATE	August 12, 2015	REVISION	2	REF	SDS002
------------	-----------------	----------	---	-----	--------



Abesco FP200 FR Foam

Safety Data Sheet

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Immediately call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Foam, CO₂, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Hydrogen cyanide (HCN)

5.3 Advice for firefighters

Protective equipment: Mouth respiratory protective device.

Additional information Cool endangered receptacles with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

ISSUE DATE	August 12, 2015	REVISION	2	REF	SDS002
------------	-----------------	----------	---	-----	--------



Abesco FP200 FR Foam

Safety Data Sheet

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.
Observe official regulations on storing packaging with pressurized containers.

Information about storage in one common storage facility:

Store away from oxidizing agents.
Do not store together with acids.
Do not store together with alkalis (caustic solutions).

Further information about storage conditions:

Store in dry conditions.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control Parameters

Ingredients with limit values that require monitoring at the workplace:	
9016-87-9 diphenylmethanediisocyanate, isomers and homologues	
WEL	Short-Term value: 0.07 mg/m ³ Long-Term value 0.02 mg/m ³
115-10-6 dimethyl ether	
WEL	Short-Term value: 958 mg/m ³ , 500 ppm Long-Term value: 766 mg/m ³ , 400 ppm

Additional information: The lists that were valid during the creation were used as basis.

8.2 Exposure Controls

Personal protective equipment:

ISSUE DATE	August 12, 2015	REVISION	2	REF	SDS002
------------	-----------------	----------	---	-----	--------



Abesco FP200 FR Foam

Safety Data Sheet

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

Respiratory Protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General information

Appearance:

Form: Aerosol

Color: According to product specification

Odor: Characteristic

Change in condition

ISSUE DATE	August 12, 2015	REVISION	2	REF	SDS002
------------	-----------------	----------	---	-----	--------



Abesco FP200 FR Foam

Safety Data Sheet

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: -21°C

Ignition temperature: 199°C

Auto igniting: Product is not self-igniting.

Danger of explosion: Heating may cause an explosion.

Density: Not determined.

Solubility in / Miscibility with Water: Insoluble.

Solvent content:

VOC (EC): 2%

9.2 Other information: No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical Stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Carbon monoxide

Nitrogen oxides (NOx)

Hydrogen cyanide (prussic acid)

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

· LD/LC50 values that are relevant for classification:

115-10-6 dimethyl ether

Inhalative	LC50/4 h	308 mg/l (rat)
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Primary irritant effect:

Skin corrosion/irritation: Irritant to skin and mucous membranes.

Serious eye damage/irritation: Irritating effect.

Respiratory or skin sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

ISSUE DATE	August 12, 2015	REVISION	2	REF	SDS002
------------	-----------------	----------	---	-----	--------



Abesco FP200 FR Foam

Safety Data Sheet

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful
Irritant

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Carc. 2

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available

12.4 Mobility in soil No further relevant information available

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse affects No further relevant information available

13. Disposal considerations

13.1 Waste Treatment Methods

Recommendation: Must not be disposed with household garbage. Do not allow product to reach sewage system.

European waste catalogue	
08 05 01*	Waste isocyanates
16 05 04*	Gases in pressure containers (including halons) containing dangerous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

ISSUE DATE	August 12, 2015	REVISION	2	REF	SDS002
------------	-----------------	----------	---	-----	--------



Abesco FP200 FR Foam

Safety Data Sheet

14. TRANSPORT INFORMATION

14.1 UN-Number	
DOT	UN1950
ADR, IMDG, IATA	1950
14.2 UN proper shipping name	
DOT, IATA	AEROSOLS, flammable
ADR	1950 AEROSOLS
IMDG	AEROSOLS
14.3 Transport hazard class(es)	
DOT, IMDG, IATA	
Class	2.1
Label	2.1
ADR	
Class:	2 5F Gases
Label	2.1
14.4 Packing group	
ADR, DOT, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user Warning: Gases	
EMS Number:	F-D,S-U
14.7 Transport in bulk according to Annex II of MARPOL73/78 & the IBC Code Not applicable.	
Transport/Additional information:	
ADR	
Limited Quantities (LQ)	1l
UN "Model Regulation":	UN1950, Aerosols, 2.1

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: No further information available

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

ISSUE DATE	August 12, 2015	REVISION	2	REF	SDS002
------------	-----------------	----------	---	-----	--------



Abesco FP200 FR Foam

Safety Data Sheet

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H220 Extremely flammable gas
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- 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.

Abbreviations and acronyms:

- Flam. Gas 1: Flammable gases. Hazard category 1
- Flam. Aerosol 1: Flammable aerosols. Hazard category 1
- Press. Gas C: Gases under pressure. Compressed gas
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Resp. Sens. 1: Sensitization – Respiratory, Hazard Category 1
- Skin Sens. 1: Sensitization – Skin, Hazard Category 1
- Carc. 2: Carcinogenicity, Hazard Category 2
- STOT SE 3: Specific target organ toxicity – Single Exposure, Hazard Category 3
- STOT RE 2: Specific target organ toxicity – Repeated Exposure, Hazard Category 2



ISSUE DATE	August 12, 2015	REVISION	2	REF	SDS002
------------	-----------------	----------	---	-----	--------