

P310 FOAM 'N' FILL EXPANDA
 Revision Number 1

Revision date 18-Mar-2020
 Supersedes Date: 18-Mar-2020

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

1.1. Product Identifier

Product Name P310 FOAM 'N' FILL EXPANDA
Pure substance/mixture Mixture

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

Recommended use Aerosol.
Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Company Name
 Bostik (Shanghai) Management Co., Ltd
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Manufacturer
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See section 16 for more information.

1.4. Emergency telephone number

Emergency Telephone 0532-8388 9090 (China only)
E-mail address SDS.AP@Bostik.com

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 (6.1D)
Skin corrosion/irritation	Category 2 (6.3A)
Serious eye damage/eye irritation	Category 2A (6.4A)
Respiratory sensitization	Category 1 (6.5A)
Skin sensitization	Category 1 (6.5B)
Carcinogenicity	Category 2 (6.7B)
Specific target organ toxicity - Single exposure	Category 3 (1)
Specific target organ toxicity - Repeated exposure	Category 2 (6.9B)
Hazardous to the Aquatic Environment - Acute Hazard	Category 1 (9.1A)
Hazardous to the Aquatic Environment - Chronic Hazard	Category 1 (9.1A)
aerosols	Category 1 (2.1.2A ^b)

2.2. Label Elements



Signal word

Danger

Hazard statements

H319 - Causes serious eye irritation

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H362 - May cause harm to breast-fed children
H410 - Very toxic to aquatic life with long lasting effects
H351 - Suspected of causing cancer
H315 - Causes skin irritation
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H373 - May cause damage to organs through prolonged or repeated exposure
H317 - May cause an allergic skin reaction
H222 - Extremely flammable aerosol
H229 - Pressurized container: May burst if heated

Prevention

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P271 - Use only outdoors or in a well-ventilated area
P264 - Wash face, hands and any exposed skin thoroughly after handling
P284 - In case of inadequate ventilation wear respiratory protection
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P273 - Avoid release to the environment
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 - Pressurized container: Do not pierce or burn, even after use

Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention
P321 - Specific treatment (see supplemental first aid instructions on this label)

Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Skin

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P362 - Take off contaminated clothing and wash before reuse
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

Eyes

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

Spill

P391 - Collect spillage

Storage

P405 - Store locked up
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2. Mixtures

Chemical name	CAS No.	Weight-%
Alkanes, C14-17, chloro	85535-85-9	30 - 40
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	20 - 30

*** Any remaining ingredients are not hazardous

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Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Get medical advice/attention. Remove and isolate contaminated clothing and shoes.
Inhalation	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.
Skin contact	In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

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

Symptoms None known.

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

Note to physicians Keep victim warm and quiet.

4.4. Reference to Other Sections

Reference to other sections Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 11: TOXICOLOGY INFORMATION

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO ₂ . Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.
Unsuitable extinguishing media	No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Some may burn but none ignite readily. Ruptured cylinders may rocket.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). Formaldehyde.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Caution! Container under pressure. Heating causes rise in pressure with risk of bursting. Cool container with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Remove all possible sources of ignition in the surrounding area. Ensure adequate ventilation, especially in confined areas.
Other information	Ventilate the area.

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6.2. Environmental precautions

Environmental precautions Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.

Methods for cleaning up Do not direct water at spill or source of leak.

6.4. Reference to other sections

Reference to other sections Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Use only in well-ventilated areas. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Recommended storage temperature. 50 - 95 °F. Observe local regulations / instructions for storage of pressurized containers.

Incompatible materials Strong oxidizing agents Acid anhydrides Strong acids

7.3. Specific end use(s)

Specific Use(s) Aerosol.

Other information No information available.

7.4. References to Other Sections

Reference to other sections Section 13: DISPOSAL CONSIDERATIONS
Section 10: STABILITY AND REACTIVITY

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

Chemical name	China	Japan	Korea	New Zealand	Australia
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9				-	0.02 mg/m ³ TWA 0.07 mg/m ³ STEL

Derived No Effect Level (DNEL) No information available

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Predicted No Effect Concentration (PNEC) No information available

OTHER INFORMATION No information available

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Vapors/aerosols must be exhausted directly at the point of origin.

PPE - Personal Protection Equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions.
Hand protection	Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.
Respiratory protection	No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Color	No information available
Odor	Characteristic
Odor threshold	No information available

Property	Values	Remarks • Method
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	Not applicable, Aerosol	Not applicable, Aerosol
Flash point	Not applicable, Aerosol	Not applicable, Aerosol
Evaporation rate	No data available	
Flammability (solid, gas)	Not applicable for liquids	
Flammability Limit in Air		
Upper flammability or explosive limits	18.6	
Lower flammability or explosive limits	1.7	
Vapor pressure	8.3	bar @ 23 °C
Vapor density	No data available	
Relative density	No data available	
Water solubility	Immiscible in water	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	No information available	
Oxidizing properties	No information available	

9.2. Other information

Softening Point	No information available
Molecular weight	No information available
Solvent content (%)	No information available

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Solid content (%) No information available
Density 0.963 g/cm³
Bulk density No information available
VOC Content (%) No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical stability

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents. Acid anhydrides. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Formaldehyde. Carbon monoxide. Carbon dioxide (CO₂).

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information Harmful by inhalation.
Inhalation No data available.
Eye contact No data available.
Skin contact No data available.
Ingestion No data available.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Alkanes, C14-17, chloro 85535-85-9	>4000 mg/kg (Rattus)	> 2000 mg/kg (Rattus)	-
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus)	=1.5 mg/L (Rattus) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.
Serious eye damage/eye irritation No information available.
Sensitization No information available.
Germ cell mutagenicity No information available.
Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target organ effects Respiratory system, liver.

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Aspiration hazard No information available.
Carcinogenicity No information available.

Chemical name	IARC	China	Japan
Isocyanic acid, polymethylenepolyphenylene ester	Group 3	-	-

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Product Information

Very toxic to aquatic life with long lasting effects.

Component Information

Data obtained on the component(s) include

Chemical name	Algae/aquatic plants	Fish	Crustacea
Alkanes, C14-17, chloro 85535-85-9	-	LC50: >500mg/L (48h, Leuciscus idus)	EC50 (48h) = 0.0059 mg/l (Daphnia magna) OECD 202
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	CL50 (96h) >1000 mg/L (Danio rerio)	EC50 (24H) >1000 mg/L Daphnia magna

12.2. Persistence and degradability

No information available.

Component Information

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

12.3. Bioaccumulative potential

There is no data for this product.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Alkanes, C14-17, chloro 85535-85-9	6	-
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	-	< 14

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Alkanes, C14-17, chloro 85535-85-9	The substance is not PBT / vPvB

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12.6. Other adverse effects

No information available.

Endocrine Disruptor Information

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Alkanes, C14-17, chloro	Group III Chemical	-	-

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

IMDG

UN number UN1950
Proper Shipping Name Aerosols (Alkanes, C14-17, chloro), Marine Pollutant
Transport hazard class(es) 2.1
Marine Pollutant P. This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
EmS-No. F-D, S-U
Special Provisions 63,190, 277, 327, 344, 381, 959
Limited Quantity (LQ) See SP277
Description UN1950, Aerosols (Alkanes, C14-17, chloro), 2.1, Marine Pollutant

IATA

UN number UN1950
Proper Shipping Name Aerosols, flammable
Transport hazard class(es) 2.1
ERG Code 10L
Limited Quantity (LQ) 30 kg G
Special Provisions A145, A167, A802
Description UN1950, Aerosols, flammable, 2.1

ADR

UN Number UN1950
Proper Shipping Name Aerosols, Environmentally Hazardous
Transport hazard class(es) 2
Labels 2.2
Description UN1950, Aerosols, 2, (E), Environmentally Hazardous
Environmental hazards Yes
Limited Quantity (LQ) 1 L
Special Provisions 327, 625, 344, 190
Classification Code 5A
Tunnel Restriction Code (E)

Section 15: REGULATORY INFORMATION

X - Present

National Regulations

China

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Not applicable

Japan

Not applicable

Korea

Chemicals Control Act (CCA)

This product contains the following substance(s)

Chemical name	Weight-%	Toxic substance	Prohibited substance	Restricted substance	Chemicals Control Act (CCA) - Accident Precaution Chemicals	Existing substances subject to registration
Alkanes, C14-17, chloro 85535-85-9	30 - 40					X

Industrial Safety and Health Law

Not applicable

Safety Control of Dangerous Substances Act

Not applicable

Korea - MOE - Waste Control Act - Hazardous Substances in Controlled Waste

Not applicable

International Regulations

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 16: OTHER INFORMATION

Local Contacts

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Chronic Hazard Star Legend

* = *Chronic Health Hazard*

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA (time-weighted average)
STEL (Short Term Exposure Limit)
LD50 (lethal dose)
EC50 (effective concentration)

Key Literature References and Sources for Data

No information available

Prepared By Product Safety & Regulatory Affairs

Revision date 18-Mar-2020

Revision note Not applicable.

Training Advice No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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

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any process, unless specified in the text.

End of Safety Data Sheet