

Safety Data Sheet

Bostik Allround Gun

Replaces date: 15/05/2015

Revision date: 21/11/2019

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

1.1. Product identifier

Trade name: Bostik Allround Gun

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

Recommended uses: 1-component polyurethane foam.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Bostik AB

Address: Strandbadsvägen 22

Zip code: 251 09

City: Helsingborg

Country: SWEDEN

E-mail: info.se@bostik.com

Phone: +46 42 19 50 00

Homepage: www.bostik.com

Contact person: Name: Environment dep., Phone: +46 42 19 50 00

1.4. Emergency Telephone Number

112 - ask for Poison Information Center - Sweden

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Aerosol 1;H222 Aerosol 2;H229 Acute Tox. 4;H302 Skin Irrit. 2;H315 Skin Sens. 1A;H317 Eye Irrit. 2;H319 Resp. Sens. 1B;H334 STOT SE 3;H335 Carc. 2;H351 STOT RE 2;H373

Most serious harmful effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Pictograms



Signal word: Danger

Contains

Substance: Diphenylmetanediisocyanate, homologous and isomers; isobutane; Phosphoric trichloride,

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reaction products with propylene oxide ; Dimethyl ether

H-phrases

| | |
|------|--|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H302 | Harmful if swallowed. |
| 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. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

P-phrases

| | |
|----------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| 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. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P284 | Wear respiratory protection. |
| P308+313 | IF exposed or concerned: Get medical advice/attention. |
| P410+412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. |
| P501 | Dispose of contents/ container to an approved waste disposal plant. |

Supplemental information

| | |
|--------|---|
| EUH204 | Contains isocyanates. May produce an allergic reaction. |
|--------|---|

*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. Please use the attached protective gloves! Throw away after use, do not re-use.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Substance | CAS No | EC No | REACH Reg. No. | Concentration | Notes | CLP-classification |
|--|-----------|-----------|-----------------------|---------------|-------|---|
| Diphenylmethane diisocyanate, homologous and isomers | 9016-87-9 | 618-498-9 | | 30 -< 50% | | Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 Acute Tox. 4;H332 Resp. Sens. 1;H334 STOT SE 3;H335 Carc. 2;H351 STOT RE 2;H373 |
| isobutane | 75-28-5 | 200-857-2 | 01-2119485395-27 | 10 -< 20% | | Flam. Gas 1;H220 Press. Gas Comp. gas;H280 |
| Phosphoric trichloride, reaction products with propylene oxide | - | 911-815-4 | 01-2119486772-26-XXXX | 10 -< 20% | | Acute Tox. 4;H302 Acute Tox. 4;H332 |
| Dimethyl ether | 115-10-6 | 204-065-8 | 01-2119472128-37 | 5 -< 10% | | Flam. Gas 1;H220 Press. Gas Comp. gas;H280 |
| propane | 74-98-6 | 200-827-9 | 01-2119486944-21 | 1 -< 2.5% | | Flam. Gas 1;H220 Press. Gas Comp. gas;H280 |

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| | | | | | | |
|---|-----------|-----------|------------------|-----------|--|--------------------|
| butane | 106-97-8 | 203-448-7 | | 1 -< 2.5% | | Flam. Gas 1;H220 |
| Morpholine, 4,4'-(oxydi-2,1-ethanediyl)bis- | 6425-39-4 | 229-194-7 | 01-2119969278-20 | 0.1 -< 1% | | Skin Irrit. 2;H315 |

Please see section 16 for the full text of H-phrases.

Ingredient comments: 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 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move the exposed person to fresh air at once. When unconscious, loosen tight clothing and position in secured sideposition. Call for medical attention/ambulance.

Ingestion: Seek medical advice immediately. Show this safety data sheet, if possible. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. If swallowed, rinse mouth with water (only if the person is conscious).

Skin contact: Remove contaminated clothing. Wash the skin thoroughly with water and continue washing for a long time. Wash skin thoroughly with soap and water. Seek medical attention in case of serious injuries.

Eye contact: Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until medical attention is obtained.

General: In the event of an accident, nausea or other effect, contact a doctor immediately.

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

Risk of allergic reaction, with breathing difficulties of asthma type. Contact with the skin may cause irritation and allergic contact eczema.

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

Treat symptoms.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Fire may be extinguished using powder, foam or carbon dioxide (CO₂).

Unsuitable extinguishing media: DO NOT USE WATER!

5.2. Special hazards arising from the substance or mixture

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.
Bursting aerosols can be forcibly projected from a fire.

5.3. Advice for fire-fighters

Wear a self contained breathing apparatus.

Other Information: Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: If large amounts are released, the use of protective equipment may be advisable. Avoid direct contact. Use only in well-ventilated areas.

For emergency responders: No action shall be taken that involves personal risk or without appropriate training. The surrounding area must be removed. Keep unnecessary and undeclared workers away. Do not touch or walk through chemicals. Use suitable protective equipment. Show this safety data sheet if possible.

6.2. Environmental precautions

Avoid discharge into drains, water or soil.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers. In the event of major emissions, contact the relevant authorities.

6.4. Reference to other sections

See section 13 for waste disposal. See Sections 7 and 8 for prevention.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin, eyes or clothing. See section 8 for type of protective equipment.

People with impaired lung function or distinct susceptibility to allergies should not work with isocyanates. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Keep out of reach of children.

All work must be carried out under well-ventilated conditions. Wash hands before breaks, before using restroom facilities, and at the end of work. Do not eat, drink or smoke during work.

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry, cool, well-ventilated area. Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Aerosols can explode when heated to temperatures over 50 °C.

7.3. Specific end use(s)

The product should be used only for the purposes specified to the manufacturer. See Product Data Sheet.

Other Information: Anyone working with isocyanate products must undergo special training and a specific medical examination.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

| Substance name | Time period | ppm | mg/m3 | fiber/cm3 | Comments | Remarks |
|---|-------------|-----|-------|-----------|----------|---------|
| Diphenylmethanediisocyanate, homologous and isomers | 8h | | 0.02 | | | SEN |
| Diphenylmethanediisocyanate, homologous and isomers | 15m | | 0.07 | | | SEN |

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SEN = Capable of causing respiratory sensitisation

8.2. Exposure controls

| | |
|---|---|
| Exposure controls: | All work must be carried out under well-ventilated conditions. Wash hands before breaks, before using restroom facilities, and at the end of work. Do not eat, drink or smoke during work. A respirator must be used if the concentrations exceed the hygienic limit values. |
| Appropriate engineering controls: | Technical measures: Ensure good general ventilation standards. use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below limits. Personal Precautions: Avoid skin contact with the product, wipe up the pollution / spills as soon as they arise. Wear gloves (tested to EN374) if hand contamination, wash away the impurities of the skin immediately. Wear suitable Coveralls protect against skin exposure. Provide basic training for employees to prevent / minimize exposures. |
| Personal protective equipment, eye/face protection: | Use approved safety goggles or face shield. |
| Personal protective equipment, skin protection: | Wear appropriate clothing to prevent any possibility of skin contact. |
| Personal protective equipment, hand protection: | Protective gloves: Suitable material for protective gloves; EN 374, Polychloroprene - CR: Thickness> = 0.5mm; Breakthrough time> = 480min. Nitrile rubber - NBR: Thickness> = 0.35mm; breakthrough time> = 480min. Fluorur rubber - FKM: Thickness> = 0.4mm; Breakthrough time> = 480min. Change gloves immediately if contaminated, and wash hands with soap and water. |
| Personal protective equipment, respiratory protection: | In insufficiently ventilated workplaces and during spraying, respiratory protection is required. A compressed air mask is recommended, or combination filter A2-P2 for short-term work. |
| Environmental exposure controls: | Ensure compliance with local regulations for emissions. |
| Heating hazards: | Aerosols can explode when heated to temperatures over 50 °C. |
| Other Information: | Provide shower facilities near the work place. Isolate contaminated clothing and wash before reuse. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Parameter | Value/unit | |
|----------------------|------------------|--|
| State | Aerosol | |
| Colour | Yellowish white. | |
| Odour | No data | |
| Solubility | No data | |
| Explosive properties | No data | |
| Oxidising properties | No data | |

| Parameter | Value/unit | Remarks |
|---|------------|--------------|
| pH (solution for use) | No data | |
| pH (concentrate) | | |
| Melting point | No data | |
| Freezing point | No data | |
| Initial boiling point and boiling range | - 12 °C | |
| Flash Point | - 83 °C | (Propellant) |
| Evaporation rate | No data | |
| Flammability (solid, gas) | No data | |
| Flammability limits | No data | |
| Explosion limits | No data | |
| Vapour pressure | < 300 kPa | |

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| | | |
|---------------------------------------|---------|--|
| Vapour density | No data | |
| Relative density | 0.97 | |
| Partition coefficient n-octanol/water | No data | |
| Auto-ignition temperature | 460 °C | |
| Decomposition temperature | No data | |
| Viscosity | No data | |
| Odour threshold | No data | |

9.2 Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

Reacts violently with amines and alcohol. In closed vessel penetrating water may cause gas formations, pressure increase or bursting the vessel.

10.4. Conditions to avoid

Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Keep out of reach of children.

10.5. Incompatible materials

Strong alkalis. Strong acids. Oxidising agent. Reducing agent.

10.6. Hazardous decomposition products

Stable under recommended storage and handling conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Diphenylmetanediisocyanate, homologous and isomers, cas-no 9016-87-9

| Organism | Test Type | Exposure time | Value | Conclusion | Test method | Source |
|----------|-----------|---------------|-------------|------------|-------------|--------|
| | LD50 | | > 2000mg/kg | | | |

Phosphoric trichloride, reaction products with propylene oxide , cas-no -

| Organism | Test Type | Exposure time | Value | Conclusion | Test method | Source |
|----------|-----------|---------------|----------|------------|-------------|--------|
| Rat | LD50 | | 632mg/kg | | | |

Harmful if swallowed.

Acute toxicity - dermal

Diphenylmetanediisocyanate, homologous and isomers, cas-no 9016-87-9

| Organism | Test Type | Exposure time | Value | Conclusion | Test method | Source |
|----------|-----------|---------------|-------------|------------|-------------|--------|
| | LD50 | | > 2000mg/kg | | | |

Phosphoric trichloride, reaction products with propylene oxide , cas-no -

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| Organism | Test Type | Exposure time | Value | Conclusion | Test method | Source |
|----------|-----------|---------------|-------------|------------|-------------|--------|
| | LD50 | | > 2000mg/kg | | | |

Acute toxicity - inhalation

Diphenylmetanediisocyanate, homologous and isomers, cas-no 9016-87-9

| Organism | Test Type | Exposure time | Value | Conclusion | Test method | Source |
|----------|-----------|---------------|--------|------------|-------------|--------|
| | LC50 | 4h | 11mg/l | | | |

Phosphoric trichloride, reaction products with propylene oxide , cas-no -

| Organism | Test Type | Exposure time | Value | Conclusion | Test method | Source |
|----------|-----------|---------------|----------|------------|-------------|--------|
| | LC50 | 4h | > 20mg/l | | | |

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory sensitisation or skin sensitisation: May cause allergy or asthma symptoms of breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity: Based on existing data, the classification criteria are deemed not to have been met.

Carcinogenic properties: Suspected of causing cancer.

Single STOT exposure: May cause respiratory irritation.

Repeated STOT exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Based on existing data, the classification criteria are deemed not to have been met.

SECTION 12: Ecological information

12.1. Toxicity

No information available

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No information available

Other Information

Avoid discharge into drains, water or soil. Reacts with water during the development of carbon dioxide to solid et inextricably reaction product. (Polycarbamide).

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Refuse, spillages and packaging waste are treated as dangerous waste. If large quantities are handled, a chemicals protective suit with breathing apparatus should be available. Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Category of waste: 16 05 04* gases in pressure containers (including halons) containing hazardous substances

SECTION 14: Transport information

Land transport (ADR/RID)

| | | | |
|-----------------------------------|----------|------------------------------|-----|
| 14.1. UN-No.: | 1950 | 14.4. Packing group: | N/A |
| 14.2. UN proper shipping name: | AEROSOLS | 14.5. Environmental hazards: | No |
| 14.3. Transport hazard class(es): | 2 | | |
| Hazard label(s): | 2.1 | | |
| Hazard identification number: | | Tunnel restriction code: | (D) |

Inland water ways transport (ADN)

| | | | |
|-----------------------------------|--------------------|------------------------------|--|
| 14.1. UN-No.: | UN 1950 | 14.4. Packing group: | |
| 14.2. UN proper shipping name: | Aerosol, flammable | 14.5. Environmental hazards: | |
| 14.3. Transport hazard class(es): | | | |
| Hazard label(s): | | | |
| Transport in tank vessels: | | | |

Sea transport (IMDG)

| | | | |
|-----------------------------------|--------------------|--|-----|
| 14.1. UN-No.: | 1950 | 14.4. Packing group: | N/A |
| 14.2. UN proper shipping name: | Aerosol, flammable | 14.5. Environmental hazards: | No |
| 14.3. Transport hazard class(es): | 2 | Environmental Hazardous Substance Name(s): | |
| Hazard label(s): | 2.1 | | |
| EmS: | F-D, S-U | IMDG Code segregation group: | |

Air transport (ICAO-TI / IATA-DGR)

| | | | |
|-----------------------------------|--------------------|------------------------------|-----|
| 14.1. UN-No.: | 1950 | 14.4. Packing group: | N/A |
| 14.2. UN proper shipping name: | Aerosol, flammable | 14.5. Environmental hazards: | No |
| 14.3. Transport hazard class(es): | 2 | | |
| Hazard label(s): | 2.1 | | |

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

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Special Provisions:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Safety, health and environmental regulations / legislation specific for the substance or mixture. EU regulation (EC) No. 1907/2006 (REACH).

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59.

The product does not contain SVHC substances.

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction:

Diphenylmethanediisocyanate, homologous and isomers [9016-87-9]. Restrictions on use:56

EU-REACH (1907/2006) - Annex XIV - List of substances subject to authorisation:None of the components are listed.

Authorisations / limitations:

People under the age of 18 must not be exposed this product. Council directive 94/33/EC.

15.2. Chemical Safety Assessment

Other Information:

*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. Please use the attached protective gloves! Throw away after use, do not re-use.

SECTION 16: Other information

References to literature and data sources:

* NOTE: This rule (552/2009) applies to products sold to the general public / consumers. Products that contain Diphenylmethanediisocyanate (MDI) and used for professional and industrial use of rules for personal protective equipment as SDS for each product.

Training advice:

Anyone working with isocyanate products must undergo special training and a specific medical examination.

Vendor notes:

Version 2.

The information in this SDS is based on our current knowledge and on current EU and national laws. The product should not be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the user who has full responsibility to comply with the requirements of current legislation. The information in this SDS is meant as a description of safety requirements for the product and not a guarantee of product properties.

Date:

21/11/2019

List of relevant H-statements

| | |
|------|---|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| 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. |

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| | |
|------|--|
| 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. |

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