

SAFETY DATA SHEET

1. Identification

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|---|--|
| Product identifier | Soudafoam All Season |
| Other means of identification | None. |
| Recommended use | Polyurethane foam |
| Recommended restrictions | None known. |
| Manufacturer/Importer/Supplier/Distributor information | |
| Manufacturer | |
| Company name | Soudal Chemical Products Inc. |
| Address | 95 Avenue Lindsay Dorval, QC H9P 2S6 Canada |
| Telephone | +1-(514)-497-1016 |
| E-mail | info.canada@soudal.com |
| Emergency phone number | CHEMTREC +1-(800)-424-930 |
| Supplier | See above. |

2. Hazard identification

| | | |
|------------------------------|--|---|
| Physical hazards | Flammable aerosols | Category 1 |
| | Gases under pressure | Liquefied gas |
| Health hazards | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2 |
| | Sensitization, respiratory | Category 1 |
| | Sensitization, skin | Category 1 |
| | Specific target organ toxicity following single exposure | Category 3 respiratory tract irritation |
| | Specific target organ toxicity following repeated exposure | Category 2 |
| Environmental hazards | Not classified. | |

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
Do not breathe mist or vapour.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, eye protection, and face protection.
Wear respiratory protection.

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| Response | IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF INHALED: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Do not expose to temperatures exceeding 50°C/122°F. Protect from sunlight. Store locked up. |
| Disposal | Dispose of container in accordance with local, regional, national and international regulations. |
| Other hazards | None known. |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|------------|-----------|
| Diethylene glycol | | 111-46-6 | 7 - 13 * |
| Isobutane | | 75-28-5 | 5 - 10 * |
| Methane, oxybis- | | 115-10-6 | 7 - 13 * |
| Polymethylene polyphenylene isocyanate | | 9016-87-9 | 15 - 40 * |
| Propane | | 74-98-6 | 1 - 5 * |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments *CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

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| Inhalation | IF INHALED: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER. |
| Skin contact | IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. |
| Eye contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| Ingestion | Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention. |
| Most important symptoms/effects, acute and delayed | Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. May cause respiratory irritation. Difficulty in breathing. Prolonged exposure may cause chronic effects. |
| Indication of immediate medical attention and special treatment needed | Treat patient symptomatically. |
| General information | If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. |
| Hazardous combustion products | May include and are not limited to: Oxides of carbon. Hydrogen cyanide (hydrocyanic acid). |
| Special protective equipment and precautions for firefighters | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| Fire fighting equipment/instructions | In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. |

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| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | Extremely flammable aerosol. Contents under pressure. Pressurised container may explode when exposed to heat or flame. |

6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Do not breathe mist or vapour. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Do not discharge into lakes, streams, ponds or public waters. |

7. Handling and storage

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|---|--|
| Precautions for safe handling | Pressurised container: Do not pierce or burn, even after use. All equipment used when handling the product must be grounded. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Use good industrial hygiene practices in handling this material. Wash thoroughly after handling. When using do not eat or drink. |
| Conditions for safe storage, including any incompatibilities | Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store locked up. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. |

8. Exposure controls/Personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|-------------------------|------|----------|
| Isobutane (CAS 75-28-5) | STEL | 1000 ppm |

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components | Type | Value |
|--|------|------------|
| Polymethylene polyphenylene isocyanate (CAS 9016-87-9) | TWA | 0.07 mg/m3 |
| | | 0.005 ppm |
| Propane (CAS 74-98-6) | TWA | 1000 ppm |

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components | Type | Value |
|--|---------|-----------|
| Isobutane (CAS 75-28-5) | STEL | 1000 ppm |
| Methane, oxybis- (CAS 115-10-6) | TWA | 1000 ppm |
| Polymethylene polyphenylene isocyanate (CAS 9016-87-9) | Ceiling | 0.01 ppm |
| | TWA | 0.005 ppm |

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

| Components | Type | Value |
|-------------------------|------|----------|
| Isobutane (CAS 75-28-5) | STEL | 1000 ppm |

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components | Type | Value |
|-------------------------|------|----------|
| Isobutane (CAS 75-28-5) | STEL | 1000 ppm |

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

| Components | Type | Value |
|-----------------------|------|------------------------|
| Propane (CAS 74-98-6) | TWA | 1800 mg/m3 1000 ppm |

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

| Components | Type | Value |
|--|--|--------------|
| Isobutane (CAS 75-28-5) | 15 minute | 1250 ppm |
| | 8 hour | 1000 ppm |
| Propane (CAS 74-98-6) | 15 minute | 1250 ppm |
| | 8 hour | 1000 ppm |
| Biological limit values | No biological exposure limits noted for the ingredient(s). | |
| Appropriate engineering controls | Ensure adequate ventilation. | |
| Individual protection measures, such as personal protective equipment | | |
| Eye/face protection | Wear safety glasses with side shields. | |
| Skin protection | | |
| Hand protection | Wear appropriate chemical resistant gloves. Confirm with a reputable supplier first. | |
| Other | Wear appropriate chemical resistant clothing. As required by employer code. | |
| Respiratory protection | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2). | |
| Thermal hazards | Not applicable. | |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. | |

9. Physical and chemical properties

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|---|-----------------|
| Appearance | Aerosol. Foam |
| Physical state | Liquid. |
| Form | Aerosol |
| Colour | White |
| Odour | Not available. |
| Odour threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapour pressure | Not available. |
| Vapour density | < 1 |
| Relative density | 1.17 @ 20°C |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Explosive properties | Not explosive. |

Oxidising properties

Not oxidising.

10. Stability and reactivity

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|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerisation does not occur. |
| Conditions to avoid | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not mix with other chemicals. |
| Incompatible materials | Strong oxidising agents. Reducing Agents. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. Hydrogen chloride. |

11. Toxicological information

Information on likely routes of exposure

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|---------------------|--|
| Inhalation | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin contact | Causes skin irritation. May cause an allergic skin reaction. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | May cause stomach distress, nausea or vomiting. |

Symptoms related to the physical, chemical and toxicological characteristics Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Skin irritation. May cause redness and pain.
May cause an allergic skin reaction. Dermatitis. Rash.
May cause respiratory irritation. Difficulty in breathing.

Information on toxicological effects

Acute toxicity

| Components | Species | Test Results |
|----------------------------------|---------------|---------------------------|
| Diethylene glycol (CAS 111-46-6) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 11890 mg/kg, HSDB |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Cat | 3300 mg/kg, HSDB |
| | Dog | 9000 mg/kg, HSDB |
| | Guinea pig | 8700 mg/kg, HSDB |
| | | 14 g/kg, HSDB |
| | Human | 1120 mg/kg, ECHA |
| | | 1000 mg/kg, SAX SDS |
| | Mouse | 26500 mg/kg, HSDB |
| | | 23700 mg/kg, HSDB |
| | | 13.3 g/kg, HSDB |
| | Rabbit | 26.9 g/kg, HSDB |
| | Rat | 19600 mg/kg, ECHA |
| | | 16600 mg/kg, HSDB |
| | | 16500 mg/kg, ECHA |
| | | 15.6 g/kg, HSDB |
| Isobutane (CAS 75-28-5) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Not available | |
| <i>Inhalation</i> | | |
| LC50 | Rat | > 80000 ppm, 15 min, ECHA |

| Components | Species | Test Results |
|---|--|---|
| | | 1442738 mg/m ³ , 15 min, ECHA |
| | | 1443 mg/L, 15 min, ECHA |
| <i>Oral</i> LD50 | Not available | |
| Methane, oxybis- (CAS 115-10-6) | | |
| Acute | | |
| <i>Dermal</i> LD50 | Not available | |
| <i>Inhalation</i> LC50 | Rat | 309018 mg/m ³ , 4 hours, ECHA 164000 ppm, 4 Hours, ECHA/HSDB 308.5 mg/L, 4 Hours, HSDB |
| <i>Oral</i> LD50 | Not available | |
| Polymethylene polyphenylene isocyanate (CAS 9016-87-9) | | |
| Acute | | |
| <i>Dermal</i> LD50 | Rat | > 9400 mg/kg, CCOHS |
| <i>Inhalation</i> LC50 | Rat | 0.5 mg/l/4h, CCOHS |
| <i>Oral</i> LD50 | Rat | > 2000 mg/kg, CCOHS |
| Propane (CAS 74-98-6) | | |
| Acute | | |
| <i>Dermal</i> LD50 | Not available | |
| <i>Inhalation</i> LC50 | Rat | 1442738 mg/m ³ , 15 Minutes, ECHA 1443 mg/L, 15 Minutes, ECHA |
| <i>Oral</i> LD50 | Not available | |
| Skin corrosion/irritation | Causes skin irritation. | |
| Exposure minutes | Not available. | |
| Erythema value | Not available. | |
| Oedema value | Not available. | |
| Serious eye damage/eye irritation | Causes serious eye irritation. | |
| Corneal opacity value | Not available. | |
| Iris lesion value | Not available. | |
| Conjunctival reddening value | Not available. | |
| Conjunctival oedema value | Not available. | |
| Recover days | Not available. | |
| Respiratory or skin sensitisation | | |
| Canada - British Columbia OELs: Respiratory or skin sensitiser | | |
| Polymethylene polyphenylene isocyanate (CAS 9016-87-9) | | Capable of causing sensitization |
| Canada - British Columbia OELs: Simple asphyxiant | | |
| Isobutane (CAS 75-28-5) | | Simple asphyxiant. |
| Propane (CAS 74-98-6) | | Simple asphyxiant. |
| Canada - Manitoba OELs Hazard: Asphyxiant | | |
| Isobutane (CAS 75-28-5) | | Simple asphyxiant. |
| Propane (CAS 74-98-6) | | Simple asphyxiant. |
| Respiratory sensitisation | May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |

| | |
|-------------------------------|--|
| Skin sensitisation | May cause an allergic skin reaction. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | See below. |

IARC Monographs. Overall Evaluation of Carcinogenicity

Polymethylene polyphenylene isocyanate (CAS 9016-87-9)

Volume 19, Supplement 7 - 3 Not classifiable as to carcinogenicity to humans.

| | |
|---|--|
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure | May cause respiratory irritation. |
| Specific target organ toxicity - repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | Not an aspiration hazard. |
| Chronic effects | Prolonged inhalation may be harmful. |
| Further information | Not available. |

12. Ecological information

Ecotoxicity See below

Ecotoxicological data

| Components | Species | Test Results |
|----------------------------------|---|------------------------|
| Diethylene glycol (CAS 111-46-6) | | |
| Crustacea | EC50 Daphnia | 84000 mg/L, 48 Hours |
| Aquatic | | |
| Fish | LC50 Western mosquitofish (<i>Gambusia affinis</i>) | > 32000 mg/L, 96 hours |

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Mobility in soil No data available.

Mobility in general Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

General Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

| | |
|-----------------------------|---------------------|
| UN number | UN1950 |
| Proper shipping name | AEROSOLS, flammable |
| Hazard class | 2.1 |
| Special provisions | 80, 107 |



15. Regulatory information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Canada DSL Challenge Substances: Listed substance

Isobutane (CAS 75-28-5) Listed

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Isobutane (CAS 75-28-5) 1 TONNES

Methane, oxybis- (CAS 115-10-6) 1 TONNES

Propane (CAS 74-98-6) 1 TONNES

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS status Controlled

International regulations

Inventory status

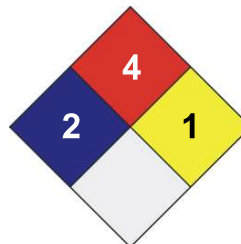
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|-------------------------------------|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | |
|---------------------|-----|
| HEALTH | * 2 |
| FLAMMABILITY | 4 |
| PHYSICAL HAZARD | 1 |
| PERSONAL PROTECTION | X |



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Version No. 01

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

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