

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: SOUDABOND EASY GUN

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Polyurethane

Details of Manufacturer or Importer:

Soudal Australia Pty Ltd
Unit 1, 29 Prince William Drive
Seven Hills NSW 2147

Phone Number: 02 8678 7449

Emergency telephone number: 1300 507 011

2 . HAZARDS IDENTIFICATION

Hazardous Nature:

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Signal Word Danger

Hazard Statements

H222-H229 Extremely flammable aerosol. Pressurised 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.

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Precautionary Statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P284 Wear respiratory protection.
- P211 Do not spray on an open flame or other ignition source.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	>25%
13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1) H402; Aquatic Chronic 3, H412	1-<25%
75-37-6	Ethane, 1,1-difluoro- ⚠ Flam. Liq. 1, H224; Press. Gas, H280; Acute Tox. 5, H333	1-<10%
74-98-6	Propane ⚠ Flam. Gas 1, H220; Press. Gas, H280	1-<10%
75-28-5	Propane, 2-methyl- ⚠ Flam. Gas 1, H220; Press. Gas, H280	1-<10%
115-10-6	Dimethyl ether ⚠ Flam. Gas 1, H220; Press. Gas, H280	1-<10%

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4 . FIRST AID MEASURES**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Do not apply neutralising agents. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth with water. Give lots of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Irritation of nasal mucous membranes and respiratory tract, dry, sore throat, coughing and runny nose. Delayed symptoms are possible inflammation of the respiratory tract, risk of lung oedema and respiratory difficulties

Skin Contact: Tingling and skin irritation.

Eye Contact: Eye irritation and lacrimation.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water, polyvalent foam, BC powder and carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and phosphorous, nitrous vapours, hydrogen chloride and hydrofluoric acid.

On heating, toxic and combustible gases may be released, including hydrogen cyanide.

Dilute toxic gases with water spray.

Vapors are heavier than air and may travel long distance to a source of ignition and flash back. Containers close to fire should be removed if safe to do so. Use water to keep fire exposed containers cool. Explosion risk even after cooling. Extinguish fire from behind cover.

May polymerise on exposure to temperature rise.

Special Protective Equipment and Precautions for Fire Fighters:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

6 . ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Allow spill to solidify and remove mechanically. Collect spilled material in appropriate container for disposal. Clean contaminated surfaces with acetone.

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7 . HANDLING AND STORAGE**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area. Use explosion-proof equipment and lighting system. Pressurised container, do not pierce or burn even after use.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry, fireproof storeroom with ventilation at floor level. Do not expose to temperatures exceeding 50 °C. Keep in original, labeled container tightly closed when not in use. Protect from physical damage, direct sunlight, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents, acids, bases and amines.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure Standards:****9016-87-9 Isocyanic acid, polymethylenepolyphenylene ester**

NES	STEL: 0.07 mg/m ³ TWA: 0.02 mg/m ³ Sen, as -NCO
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75-37-6 Ethane, 1,1-difluoro-

NES	TWA: 2.5 mg/m ³ as F
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74-98-6 Propane

NES	Asphyxiant
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115-10-6 Dimethyl ether

NES	STEL: 950 mg/m ³ , 500 ppm TWA: 760 mg/m ³ , 400 ppm
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Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards. Use explosion-proof ventilating equipment. Measure the concentration of vapours in the air regularly.

Personal Protective Equipment (PPE):**Respiratory Protection:**

Use a Safe Work Australia approved vapour respirator (gas mask with filter Type A) under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

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LDPE (Low Density Poly Ethylene) gloves with minimum thickness 0.025 mm are recommended. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing. See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES**Appearance:**

Form:	Aerosol
Colour:	Variable in colour.
Odour:	Characteristic
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Flammability:	Extremely flammable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Density at 20 °C:	1040 kg/m ³
Relative Density at 20 °C:	1.0
Vapour Density:	>1
Evaporation Rate:	No information available
Solubility in Water:	Insoluble
Solubility in Solvents:	Soluble in organic solvents.
Partition Coefficient (n-octanol/water):	No information available
VOC:	21 %

10 . STABILITY AND REACTIVITY**Possibility of Hazardous Reactions:**

Hazardous polymerisation may occur with strong bases, amines or exposure to temperature rise. Reacts violently with some acids and bases.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.

Incompatible Materials: Strong acids, bases and amines.

Hazardous Decomposition Products:

Oxides of carbon and phosphorous, nitrous vapours, hydrogen chloride and hydrofluoric acid.

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11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD ₅₀ /LC ₅₀ Values Relevant for Classification:		
13674-84-5 2-Propanol, 1-chloro-, phosphate (3:1)		
Oral	LD ₅₀	1150-1750 mg/kg (rat)
Dermal	LC ₅₀	>2000 mg/l (rabbit)
	LD ₅₀	>2000 mg/kg (rat)
Inhalation	LC ₅₀ /4 h	>5 mg/l (rat)
74-98-6 Propane		
Inhalation	LC ₅₀ /4 h	513 mg/l (rat)
115-10-6 Dimethyl ether		
Inhalation	LC ₅₀ /4 h	309 mg/l (rat)
75-37-6 Ethane, 1,1-difluoro-		
Inhalation	LC ₅₀ /4 h	176 mg/l (rat)
9016-87-9 Isocyanic acid, polymethylenepolyphenylene ester		
Oral	LD ₅₀	>10000 mg/kg (rat)
75-28-5 Propane, 2-methyl-		
Inhalation	LC ₅₀ /4 h	>50 mg/l (rat)

Acute Health Effects

Inhalation:

Harmful if inhaled. May causes respiratory irritation, dry sore throat, coughing, runny nose and irritation of the nasal mucous membranes. Possible delayed symptoms include inflammation of the respiratory tract, risk of lung oedema and respiratory difficulties.

Skin: May cause skin irritation or tingling of the skin.

Eye: Causes serious eye irritation and lacrimation.

Ingestion: Ingestion is not considered a potential route of exposure.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation:

May cause an allergic skin reaction.

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

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Polymethylene polyphenyl isocyanate is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Suspected of causing cancer.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause respiratory irritation.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

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Chronic Health Effects:

Danger of damage to health through prolonged inhalation. Repeated and prolonged exposure may cause feeling of weakness, itching, skin rash and inflammation, staining and drying of the skin, coughing, possible inflammation of the respiratory tract and respiratory difficulties.

Existing Conditions Aggravated by Exposure:

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

12 . ECOLOGICAL INFORMATION

Ecotoxicity: No data available on finished product.

Aquatic toxicity:**115-10-6 Dimethyl ether**LC₅₀/96 h >1000 mg/l (fish)**74-98-6 Propane**LC₅₀/96 h >1000 mg/l (fish)**9016-87-9 Isocyanic acid, polymethylenepolyphenylene ester**LC₅₀/96 h >1000 mg/l (fish)**13674-84-5 2-Propanol, 1-chloro-, phosphate (3:1)**EC₅₀/48 h 65-335 mg/l (daphnia)EC₅₀/72 h 45 mg/l (scenedesmus subspicatus)LC₅₀/96 h 56.2 mg/l (brachydanio rerio)

Persistence and Degradability: Contains non readily biodegradable components.

Bioaccumulative Potential: Does not contain bioaccumulative components.

Mobility in Soil: No information available

Other adverse effects:

Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases. .

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer.

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION**UN Number****ADG** 1950**Proper Shipping Name****ADG** AEROSOLS**Dangerous Goods Class**

2

IATA Class:

2.1

Packing Group:

Not Applicable

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Hazchem Code:	2YE
Special Provisions:	63, 190, 277, 327
Limited Quantities:	See SP 277
Packagings & IBCs - Packing Instruction:	P003, LP02
Packagings & IBCs - Special Packing Provisions:	PP17, PP87, L2
Portable Tanks & Bulk Containers - Instructions:	Not applicable
Portable Tanks & Bulk Containers - Special Provisions:	Not applicable

15 . REGULATORY INFORMATION**Australian Inventory of Chemical Substances:**

13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester
75-37-6	Ethane, 1,1-difluoro-
74-98-6	Propane
75-28-5	Propane, 2-methyl-

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Not Scheduled.**16 . OTHER INFORMATION****Creation Date:** 12.12.2014**Last Revision of MSDS:** 24.06.2014**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds
LC₅₀: Lethal concentration, 50 percent
LD₅₀: Lethal dose, 50 percent
IARC: International Agency for Research on Cancer
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Data compared to the previous version altered. Section 4 and 11.**Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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