

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY**Product Name:** GENIUS GUN FLEXIBLE INSULATION EXPANDING FOAM**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 the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

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



flame

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



skull and crossbones

Acute Tox. (Inhalation) 3 H331 Toxic if inhaled.



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.



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.

H331 Toxic if inhaled.

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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

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P284	[In case of inadequate ventilation] wear respiratory protection.
P211	Do not spray on an open flame or other ignition source.
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).
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P308+P313	IF exposed or concerned: 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.
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:**

Hazardous Components:		
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester ⚠ Acute Tox. (Inhalation) 3, H331; ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ 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) ⚠ Acute Tox. (Oral) 4, H302; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	1 - <25%
74-98-6	Propane ⚠ Flam. Gas 1, H220; ⚠ Press. Gas C, H280	1- <10%

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75-28-5	Propane, 2-methyl- ⚠ Flam. Gas 1, H220; ⚠ Press. Gas C, H280	1- <10%
115-10-6	Dimethyl ether ⚠ Flam. Gas 1, H220; ⚠ Press. Gas C, H280	1- <10%

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 persist.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Do not apply neutralising agents. Seek medical attention if symptoms persist.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

Symptoms Caused by Exposure:

Inhalation: Toxic if inhaled. May cause respiratory irritation. 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.

5 . FIRE FIGHTING MEASURES

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

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and phosphorus, nitrogen compounds, hydrogen cyanide and hydrogen chloride.

Product is extremely flammable. Vapours may travel considerable distances to a source of ignition where they can ignite, flashback, or explode.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

Mouth respiratory protective device.

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. 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.

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Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so. Allow the product to solidify and then collect the spilled material and place into a suitable container for disposal. Clean the spill area with acetone.

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.

Take precautionary measures against static discharge. 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.

Contaminated work clothing must not be allowed out of the workplace.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed. Protect from direct sunlight, heat, sparks, open flames and other sources of ignition. Do not expose to temperatures exceeding 50 °C. Keep away from strong oxidising agents, strong 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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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:

Maintain air concentration below occupational exposure standards, providing adequate ventilation. Use explosion-proof ventilating equipment.

Respiratory Protection:

Use an approved Type A vapour respirator 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. Respiratory protection must be carefully selected based on information available through the risk assessment process. The concentration of isocyanate present in the air will determine the level of protection required in other circumstances. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Low density poly ethylene (LDPE) gloves. 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.

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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:	Various colours
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:	Not applicable, as aerosol.
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
Relative Density at 20 °C:	0.9
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
Viscosity:	No information available

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

May polymerise with strong bases and amines. Reacts violently with some acids and bases.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat, sparks, open flames and other sources of ignition.

Incompatible Materials: Strong acids, strong bases and amines.

Hazardous Decomposition Products:

Oxides of carbon and phosphorus, nitrogen compounds, hydrogen cyanide and hydrogen chloride.

11 . TOXICOLOGICAL INFORMATION

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****13674-84-5 2-Propanol, 1-chloro-, phosphate (3:1)**

Oral	LD ₅₀	1011 - 1824 mg/kg (rat)
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Dermal	LD ₅₀	>2000 mg/kg (rabbit)
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Inhalation	LC ₅₀ /4 h	> mg/L (rat)
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74-98-6 Propane

Inhalation	LC ₅₀ /4 h	658 mg/l (rat)
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115-10-6 Dimethyl ether		
Inhalation	LC ₅₀ /4 h	308 mg/l (rat)
9016-87-9 Isocyanic acid, polymethylenepolyphenylene ester		
Oral	LD ₅₀	>10000 mg/kg (rat)
Dermal	LD ₅₀	>5000 mg/kg (rabbit)
Inhalation	LC ₅₀ /4 h	10 - 20 mg/L (rat)

Acute Health Effects**Inhalation:**

Toxic if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin: Causes skin irritation. May cause an allergic skin reaction.

Eye: Causes serious eye irritation.

Ingestion: No information available

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:

Suspected of causing cancer.

Isocyanic acid, polymethylenepolyphenylene ester is classified by Safe Work Australia as Carcinogen Category 3.

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

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.

Chronic Health Effects:

Repeated and prolonged exposure may cause weakness, itchiness, skin rash or inflammation, dry skin, coughing, respiratory difficulties and inflammation of the respiratory tract. Prolonged contact may stain the skin.

12 . ECOLOGICAL INFORMATION

Ecotoxicity:**Aquatic toxicity:**

9016-87-9 Isocyanic acid, polymethylenepolyphenylene ester	
EC ₅₀	>100 mg/L (activated sludge inhibition)
13674-84-5 2-Propanol, 1-chloro-, phosphate (3:1)	
EC ₅₀ /48 h	65 - 335 mg/L (daphnia)
EC ₅₀ /96 h	73 mg/L (selenastrum capricornutum)

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LC ₅₀ /96 h	56.2 mg/L (brachydanio rerio)
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Persistence and Degradability: Contains non readily biodegradable component(s).**Bioaccumulative Potential:** Does not contain bioaccumulative component(s)**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	UN1950
ADG, IMDG, IATA	
Proper Shipping Name	AEROSOLS
ADG, IMDG, IATA	
Dangerous Goods Class	
ADG Class:	2.1
Packing Group:	Not applicable
EMS Number:	F-D,S-U
Special Provisions:	63, 190, 277, 327, 344
Limited Quantities:	1L
Packagings & IBCs - Packing Instruction:	P207, LP02
Packagings & IBCs - Special Packing Provisions:	PP87, L2

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester
13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)
74-98-6	Propane
75-28-5	Propane, 2-methyl-
115-10-6	Dimethyl ether

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Not Scheduled.

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 28.07.2016**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

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Abbreviations and acronyms:

ADG: Australian Dangerous Goods
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
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)
Flam. Gas 1: Flammable gases, Hazard Category 1
Aerosol 1: Flammable aerosols, Hazard Category 1
Press. Gas C: Gases under pressure: Compressed gas
Acute Tox. (Oral) 4: Acute toxicity, Hazard Category 4
Acute Tox. (Inhalation) 3: Acute toxicity, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Resp. Sens. 1: Respiratory sensitisation, Hazard Category 1
Skin Sens. 1: Skin sensitisation, 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
Aquatic Acute 3: Hazardous to the aquatic environment, short-term (Acute). Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

Disclaimer

This SDS 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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