

Safety Data Sheet

Material Name: Soudal Genius Gun Foam

SDS ID: SD-014

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Soudal Genius Gun Foam

Product Use

polyurethane foam sealant

Restrictions on Use

None known.

Manufacturer Information

SOUDAL ACCUMETRIC

350 Ring Road,

Elizabethtown, KY 42701

Phone: 1-877-873-8739

Emergency Phone #: +1 800 424 9300

E-mail: info@soudalusa.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Aerosols - Category 1

Acute Toxicity - Oral - Category 4

Acute Toxicity - Dermal - Category 4

Acute Toxicity - Inhalation - Vapor - Category 4

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Respiratory Sensitization - Category 1A

Skin Sensitization - Category 1

Carcinogenicity - Category 2

Specific Target Organ Toxicity - Single Exposure - Category 3 (respiratory tract)

Specific Target Organ Toxicity - Repeated Exposure - Category 2 (respiratory tract)

GHS Label Elements

Symbol(s)



Signal Word

Danger

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Hazard Statement(s)

Extremely flammable aerosol
Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled
May cause allergic skin reaction
Suspected of causing cancer
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Pressurized container: Do not pierce or burn, even after use
Do not spray on an open flame or other ignition sources
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
Wear respiratory protection
Wash thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace
Do not eat, drink or smoke when using this product
Wear protective gloves

Response

IF exposed or concerned: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER/doctor
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Rinse mouth
Call a POISON CENTER or doctor if you feel unwell
Specific treatment (see label)

Storage

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

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

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Other Hazards

Contains isocyanates. See information supplied by the manufacturer. Allergic sensitization may be possible. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester	>25
13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)	<25
63449-39-8	Chlorinated paraffin waxes and hydrocarbon waxes	<25
75-28-5	Isobutane	<20
74-98-6	Propane	<10

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician. Get medical advice/attention if you feel unwell.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. Specific treatment (see label). If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see label). Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Eyes

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 advice/attention.

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

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Most Important Symptoms/Effects

Acute

Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. May cause damage to organs. Causes skin irritation.

Delayed

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

water, carbon dioxide

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Extremely flammable aerosol.

Hazardous Combustion Products

Oxides of carbon, Phosphorus oxides, hydrogen cyanide, hydrogen chloride, May polymerize when heated.

Special Protective Equipment and Precautions for Firefighters

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even after use. Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Danger of explosion. Keep unnecessary people away, isolate hazard area and deny entry. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Do not allow to enter into surface water or drains.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate personal protective equipment recommended in Section 8 of the MSDS. Do not smoke when using this product or handle near an open flame or sparks. Use explosion-proof electrical/ventilating/lighting equipment.

Methods and Materials for Containment and Cleaning Up

Do not pierce or burn, even after use.

Environmental Precautions

Do not allow to enter into surface water or drains. Dike for later disposal.

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Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even after use. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. [In case of inadequate ventilation] wear respiratory protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use explosion-proof electrical/ventilating/lighting equipment.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Ensure adequate ventilation of the storage area. Maximum storage period (time): 1 year.

Incompatible Materials

Heat, strong acids, strong bases, Amines. Keep away from all ignition sources.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Isobutane	75-28-5
ACGIH:	1000 ppm STEL
NIOSH:	800 ppmTWA; 1900 mg/m ³ TWA
Propane	74-98-6
ACGIH:	1000 ppm TWA
NIOSH:	1000 ppmTWA; 1800 mg/m ³ TWA
	2100 ppmIDLH (10% LEL)
OSHA (US):	1000 ppmTWA; 1800 mg/m ³ TWA

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Use explosion-proof electrical/ventilating/lighting equipment. Keep away from heat/sparks/open flames/hot surfaces.

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Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles.

Skin Protection

Wear suitable protective clothing and gloves.

Respiratory Protection

Use a respirator with an organic vapor cartridge for concentrations exceeding the occupational exposure limit.

Glove Recommendations

Recommended material type: LOW DENSITY POLYETHYLENE.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available	Physical State	Aerosol
Odor	characteristic odor	Color	champagne
Odor Threshold	Not available	pH	Not available
Melting Point	No data available	Boiling Point	No data available
Freezing point	Not available	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	No data available	Flash Point	Not available
Lower Explosive Limit	No data available	Decomposition	Not available
Upper Explosive Limit	No data available	Vapor Pressure	No data available
Vapor Density (air=1)	(>1)	Specific Gravity (water=1)	No data available
Water Solubility	Insoluble. Organic solvent : Soluble	Partition coefficient: n-octanol/water	Not available
Viscosity	No data available	Solubility (Other)	Not available
Bulk Density	(No data available)	Density	Not available
Log KOW	No data available	Physical Form	aerosol
VOC	26%	Volatility	No data available

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OSHA Flammability Class	Extremely flammable aerosol		
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Section 10 - STABILITY AND REACTIVITY

Reactivity

May polymerize when heated.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

May polymerize when heated.

Conditions to Avoid

Avoid contact with incompatible materials. Keep away from heat/sparks/open flames/hot surfaces. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even after use.

Incompatible Materials

Heat, strong acids, strong bases, Amines, Keep away from all ignition sources.

Hazardous decomposition products

Thermal decomposition products

Oxides of carbon, oxides of phosphorus, hydrogen cyanide, hydrogen chloride

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Skin Contact

Harmful in contact with skin. May cause allergic skin reaction. Causes skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

Harmful if swallowed.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

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

Inhalation LC50Rat 490 mg/m³ 4 h

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

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Oral LD50Rat 500 mg/kg
Dermal LD50Rabbit 1230 mg/kg
Inhalation LC50Rat 5 mg/L 4 h
Isobutane (75-28-5)
Inhalation LC50Rat 658 mg/L 4 h
Propane (74-98-6)
Inhalation LC50Rat 658 mg/L 4 h

Immediate Effects

Harmful in contact with skin. Causes serious eye irritation. Harmful if swallowed. May cause damage to organs. Causes skin irritation.

Delayed Effects

May cause allergic skin reaction. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Irritation/Corrosivity Data

Causes serious eye irritation. Causes skin irritation.

Respiratory Sensitization

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

Dermal Sensitization

May cause allergic skin reaction.

Component Carcinogenicity

Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9
IARC:	Supplement 7 [1987]; Monograph 19 [1979](Group 3 (not classifiable))
DFG:	Category 4 (no significant contribution to human cancer)
Chlorinated paraffin waxes and hydrocarbon waxes	63449-39-8
IARC:	Monograph 48 [1990](Group 2B (possibly carcinogenic to humans))
DFG:	Category 3B (could be carcinogenic for man)
OSHA:	Present

Germ Cell Mutagenicity

No data available.

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

heart.

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Specific Target Organ Toxicity - Repeated Exposure

respiratory system.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

eye disorders, respiratory disorders, heart disorders, skin disorders and allergies. May produce an allergic reaction. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

2-Propanol, 1-chloro-, phosphate (3:1)	13674-84-5
Fish:	LC50 96 h Brachydanio rerio 56.2 mg/L [static]; LC50 96 h Pimephales promelas 98 mg/L [static]; LC50 96 h Poecilia reticulata 30 mg/L [static]
Algae:	EC50 72 h Desmodesmus subspicatus 45 mg/L IUCLID; EC50 96 h Pseudokirchneriella subcapitata 4 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 63 mg/L IUCLID
Chlorinated paraffin waxes and hydrocarbon waxes	63449-39-8
Fish:	LC50 96 h Lepomis macrochirus >300 mg/L [static]; LC50 96 h Oncorhynchus mykiss >0.0109 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 94.5 - 271 mg/L [static]; LC50 96 h Lepomis macrochirus >0.1 mg/L [flow-through]; LC50 96 h Pimephales promelas >100 mg/L [static]

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations. Do not allow to enter into ground-water, surface water or drains.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: AEROSOLS

Hazard Class: 2.1

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UN/NA #: UN1950

Packing Group:

Required Label(s): 2.1

TDG Information:

Shipping Name: AEROSOLS

Hazard Class: 2.1

UN#: UN1950

Packing Group:

Required Label(s):

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9
SARA 313:	1 % de minimis concentration

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: Yes Reactivity: Yes

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	No	No	No	Yes	No
Chlorinated paraffin waxes and hydrocarbon waxes	63449-39-8	No	Yes	No	No	No
Isobutane	75-28-5	No	Yes	No	Yes	Yes
Propane	74-98-6	No	Yes	Yes	Yes	Yes

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

WHMIS Classification

B5, D2A, D2B

Component Analysis - Inventory

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

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
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Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes
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2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Isobutane (75-28-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Propane (74-98-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 4* Fire: 4 Reactivity: 3 Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 4 Fire: 4 Reactivity: 3

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic

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Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.

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