

Safety Data Sheet

SOULDAL Soudafoam Black Gun Grade

Section 1. Identification

Product Identifier SOUDAL Soudafoam Black Gun Grade

Synonyms 450801

Manufacturer Stock Numbers 135015

Recommended use Refer to Technical Information

Uses advised against Refer to Technical Information

Manufacturer Contact

Address
Soudal
350 Ring RD
Elizabethtown, KY, 42701
USA

Phone
(270) 769-3385

Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(270) 765-2412

Section 2. Hazards Identification

Classification
CARCINOGENICITY - Category 2
FLAMMABLE AEROSOLS - Category 1
GASES UNDER PRESSURE - Liquefied gas
SENSITIZATION - RESPIRATORY - Category 1
SENSITIZATION - SKIN - Category 1
SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2A
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3

Signal Word
Danger

Pictogram



Hazard Statements

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

Precautionary Statements

Response

Call a poison center/doctor if you feel unwell.
Get medical advice/attention if you feel unwell.
If experiencing respiratory symptoms: Call a poison center/doctor.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see label)
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Do not breathe dust/fume/gas/mist/ vapors/spray.
Do not handle until all safety precautions have been read and understood.
Do not spray on an open flame or other ignition source.
Keep away from heat.
Obtain special instructions before use.
Pressurized container: Do not pierce or burn, even after use.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Wear protective gloves.
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

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

Disposal

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

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

Persons already sensitized 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.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
9016-87-9	Polymeric diphenylmethane diisocyanate	70% - 75%
74-98-6	Propane	5% - 10%
115-10-6	Dimethyl ether	5% - 10%
75-28-5	Isobutane	4% - 10%
13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)	20% - 25%
8001-79-4	Caster Oil	10% - 15%
25791-96-2	Glyceryl polypropylene glycol triether	1% - 5%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
Skin	Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician.
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Get medical advice/attention.
Most Important Symptoms/Effects	<p>Acute May cause respiratory irritation. May cause drowsiness or dizziness. May cause irritation of mucous membranes, runny nose. Causes skin and eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.</p> <p>Delayed Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure: liver, thyroid gland.</p>

Indication of any immediate medical attention and special treatment needed Treat symptomatically and supportively.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	water, foam, BC-powder, carbon dioxide
Unsuitable Extinguishing Media	None known
Special Hazards Arising from the Chemical	Extremely flammable aerosol. Do not pierce or burn, even after use. Contains gas under pressure; may explode if heated.
Hazardous Combustion Products	oxides of phosphorus, nitrous vapors, hydrogen chloride, carbon monoxide, carbon dioxide, hydrogen cyanide
Fire Fighting Measures	Use water spray to cool fire fire-exposed containers. Do not move containers which have been damaged or exposed to heat. Damaged cylinders should be handled only by specialists. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. ALWAYS stay away from tanks engulfed in fire.
Special Protective Equipment and Precautions for Firefighters	Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Wear personal protective clothing and equipment, see Section 8.
Methods and Materials for Containment and Cleaning Up	Eliminate all ignition sources if safe to do so. Allow spilled liquid material to cool and solidify before attempting to clean up. Clean floors and contaminated objects with acetone. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Do not direct water at spill or source of leak. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. If possible, turn leaking containers so that gas escapes rather than liquid. Prevent entry into waterways, sewers, basements, or confined areas. Ventilate the area.
Environmental Precautions	Use appropriate containment to avoid environmental contamination.

Section 7. Handling and Storage

Precautions for Safe Handling	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
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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/vapors/spray. Wear respiratory protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

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

Conditions for Safe Storage, Including any Incompatibilities

Incompatible Materials acids, bases, amines

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Polymeric diphenylmethane diisocyanate	0.005 ppm	0.02 mg/m ³	N/A
Propane	1000 ppm TWA	1000 ppm PEL	N/A
Dimethyl ether	N/A	400 ppm	N/A
Isobutane	1000 ppm	N/A	1000 ppm
2-Propanol, 1-chloro-, phosphate (3:1)	N/A	N/A	N/A
Caster Oil	N/A	N/A	N/A
Glyceryl polypropylene glycol triether	N/A	N/A	N/A

Personal Protective Equipment

Goggles, Gloves

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

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

Engineering Controls

Use explosion-proof lighting equipment. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Wear safety goggles.

Skin Protection
Wear appropriate chemical resistant clothing.

Respiratory Protection
Respirators depend on exposure level. SCBA with full face piece recommended during change outs and available in case of emergency.

Glove Recommendations
Wear appropriate chemical resistant gloves.

Section 9. Physical and Chemical Properties

Physical State	Aerosol
Color	Variable
Odor	Not available
Odor Threshold	Not available
Solubility	Insoluble in water
Partition coefficient Water/n-octanol	Not available
VOC%	N/A
Viscosity	Not available
Specific Gravity	0.95
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	Not available
FP Method	N/A
pH	Not available
Melting Point	Not available
Boiling Point	Not available
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	Not available
Flammability	Extremely flammable aerosol
Decomposition Temperature	Not available
Auto-ignition Temperature	Not available
Vapor Pressure	Not available
Vapor Density	>1

Section 10. Stability and Reactivity

Reactivity	May be ignited by heat, sparks or flames. Gas/vapor spreads at floor level.
Chemical Stability	Stable under normal conditions of storage and handling.
Possibility of Hazardous Reactions	May polymerize when heated. May polymerize in the presence of an initiator: bases, amines, acids.
Conditions to Avoid	Keep away from heat/sparks/open flame/hot surfaces - No smoking. Keep separated from incompatible substances.
Incompatible Materials	bases, amines, acids
Hazardous decomposition products	hydrogen cyanide, phosphorous oxides, nitrous vapors, hydrogen chloride, carbon monoxide, carbon dioxide

Section 11. Toxicological Information

Information on Likely
Routes of Exposure

Inhalation

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

Skin Contact

May cause an allergic skin reaction. Causes skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

No information on significant adverse effects.

Component Analysis -
LD50/LC50

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

Polymethylene polyphenylene isocyanate (9016-87-9)

Oral LD50 Rat 49 g/kg

Dermal LD50 Rabbit >9.4 g/kg

Inhalation LC50 Rat 11 mg/l 4 h

Tris(2-chloroisopropyl) phosphate (13674-84-5)

Oral LD50 Rat 1500 mg/kg

Dermal LD50 Rabbit >5000 mg/kg (no deaths occurred)

Inhalation LC50 Rat >5.05 mg/L 4 h

Propane (74-98-6)

Inhalation LC50 Rat >800000 ppm 15 min

Isobutane (75-28-5)

Inhalation LC50 Rat 658 mg/L 4 h

Dimethyl ether (115-10-6)

Inhalation LC50 Rat 164000 ppm 4 h

Glyceryl polypropylene glycol triether (25791-96-2)

Oral LD50 Rat 2830 µL/kg

Dermal LD50 Rabbit >20 mL/kg

Product Toxicity Data

Acute Toxicity Estimate

Dermal > 2000 mg/kg

Oral > 2000 mg/kg

Acute and Chronic Toxicity

Immediate Effects

Causes skin and eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Delayed Effects

May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure: liver, thyroid gland.

Irritation/Corrosivity Data

May cause respiratory tract irritation, skin irritation, and eye irritation.

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

Dermal Sensitization
May cause allergic skin reaction.

Germ Cell Mutagenicity
No information available for the product.

Tumorigenic Data
No information available for the product.

Reproductive Toxicity
No information available for the product.

Specific Target Organ Toxicity - Single Exposure
No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure
liver, thyroid gland

Aspiration hazard
No information available for the product.

Medical Conditions Aggravated by Exposure
No data available.

Additional Data
Repeated contact: May cause inflammation, rash and itching, weakness, coughing. May stain the skin. Prolonged contact may dry skin.

Section 12. Ecological Information

Ecotoxicity

No information available for the product.

Component Analysis - Aquatic Toxicity

Tris(2-chloroisopropyl) phosphate (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

Dimethyl ether (115-10-6)

Fish:

LC50 96 h Poecilia reticulata >4.1 g/L [semi-static]

Persistence and Degradability	No information available for the product.
Bioaccumulative Potential	No information available for the product.
Mobility in Soil	No information available for the product.
Other Toxicity	No additional information available for the product.

Section 13. Disposal

Disposal Methods	Dispose of contents/container in accordance with local/regional/national/international regulations.
Component Waste Numbers	The U.S. EPA has not published waste numbers for this product's components.

Section 14. Transport Information

UN Number	1950
UN Proper Shipping Name	AEROSOLS, FLAMMABLE
DOT Classification	Required Labels: 2.1
Packing Group	2
IATA Information	Shipping Name: AEROSOLS, FLAMMABLE Hazard Class: 2.1 UN#: UN1950 Required Label(s): 2.1
ICAO Information	Shipping Name: AEROSOLS, FLAMMABLE Hazard Class: 2.1 UN#: UN1950 Required Label(s): 2.1
IMDG Information	Shipping Name: AEROSOLS Hazard Class: 2 UN#: UN1950 Required Label(s): 2
International Bulk Chemical Code	This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk. Polymethylene polyphenylene isocyanate (9016-87-9) IBC Code: Category Y Castor oil (8001-79-4) IBC Code: Category Y Glyceryl polypropylene glycol triether (25791-96-2) IBC Code: Category Z

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. Polymethylene polyphenylene isocyanate (9016-87-9)
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SARA 313: 1 % de minimis concentration

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories
Flammable; Gas Under Pressure; Carcinogenicity; Skin Corrosion/Irritation;
Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Specific
Target Organ Toxicity

U.S. State Regulations

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

Polymethylene polyphenylene isocyanate (9016-87-9)
NJ

Isobutane (75-28-5)
MA, NJ, PA

Dimethyl ether (115-10-6)
MA, MN, NJ, PA

Propane (74-98-6)
MA, MN, NJ, PA

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

Not listed under California Proposition 65.

Section 16. Other Information

Revision Date

10/17/2019

HMIS and NFPA Rating

HMIS
Health: 2*
Fire: 3
Reactivity: 0

NFPA
Health: 2
Fire: 3
Reactivity: 0

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

Disclaimer

The data contained herein is based upon information that Soudal believes to be
reliable. Users of this product have the responsibility to determine that suitability
of use and to adopt all necessary precautions to ensure the safety and
protection of property and persons involved in said use. All statements or
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