

Foam Cleaner



Safety Data Sheet/Material Safety Data Sheet

Last revision: July 2014

Section 1: IDENTIFICATION

Product Name: Foam Cleaner Pro
Synonyms: Not available.
Product Use: Foam remover.
Restrictions on Use: Not available.
Manufacturer/Supplier: Commercial Thermal Solutions, Inc.
524 Brighton Ave, Suite 9
Spring Lake, NJ 07762
Emergency Phone: ChemTrec: 1-800-424-9300
Date of Preparation of SDS: July 7, 2014

Section 2: HAZARD(S) IDENTIFICATION

GHS INFORMATION

Classification: Flammable Aerosols, Category 1
Gases Under Pressure - Compressed Gas
Eye Irritation, Category 2A
Specific Target Organ Toxicity (Single Exposure), Category 3 - Narcotic Effects

LABEL ELEMENTS

Hazard

Pictogram(s):



Signal Word: Danger

Hazard Statements: Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing mist or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing and eye protection.

Response: If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in 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 if you feel unwell.
If eye irritation persists: Get medical advice/attention.

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

Foam Cleaner



Safety Data Sheet/Material Safety Data Sheet

Last revision: July 2014

Protect from sunlight.

Disposal: Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: 10% of this product mixture consists of ingredient(s) of unknown acute toxicity.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
2-Propanone	Acetone	67-64-1	15 - 40
Acetic acid ethyl ester	Ethyl acetate	141-78-6	15 - 40
2-Propanol	Isopropanol	67-63-0	10 - 30
Propane, 2-methyl-	Isobutane	75-28-5	10 - 30
Propane	Not available.	74-98-6	5 - 9

Exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: FIRST-AID MEASURES

Inhalation: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If breathing or the heart stops, trained personnel should immediately begin artificial respiration (AR) or cardiopulmonary resuscitation (CPR) respectively. Get medical attention immediately.

Acute and delayed symptoms and effects: May cause drowsiness or dizziness. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness.

Eye Contact: If in eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Isopropanol may cause transient corneal injury.

Skin Contact: If on skin: Wash with plenty of soap and water. Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

Ingestion: If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel.

Foam Cleaner



Safety Data Sheet/Material Safety Data Sheet

Last revision: July 2014

Never give anything by mouth to an unconscious person. If breathing or the heart stops, trained personnel should immediately begin artificial respiration (AR) or cardiopulmonary resuscitation (CPR) respectively. Get medical attention immediately.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Note to Physicians: Symptoms may not appear immediately. For Isopropanol intoxication, a urine acetone test may be helpful in diagnosis. Hemodialysis should be considered in severe cases.

Section 5: FIRE-FIGHTING MEASURES

FLAMMABILITY AND EXPLOSION INFORMATION

Extremely flammable aerosol. Containers may explode when heated. Ruptured cylinders may rocket.

Sensitivity to Mechanical Impact: This material is not sensitive to mechanical impact.

Sensitivity to Static Discharge: This material is sensitive to static discharge.

MEANS OF EXTINCTION

Suitable Extinguishing Media: Dry chemical or CO₂. Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: Oxides of carbon.

Protection of Firefighters: Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing will only provide limited protection.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area. Keep unauthorized personnel away. Stay upwind. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of low areas. Ventilate closed spaces before entering. Do not touch or walk through spilled material.

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment: 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.

Foam Cleaner



Safety Data Sheet/Material Safety Data Sheet

Last revision: July 2014

Methods for Clean-Up: Allow substance to evaporate. Ventilate the area.

Other Information: See Section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Handling:

Do not swallow. Avoid breathing mist or spray. Keep away from heat, sparks, open flames, and hot surfaces. – No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. See Section 8 for information on Personal Protective Equipment.

Storage:

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Recommended storage temperature is between 5°C to 30°C (41°F to 86°F). Do not store above 40°C/ 104°F (40°C), as this will shorten the product's shelf life. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component

Acetone [CAS No. 67-64-1]

ACGIH: 500 ppm (TWA); 750 ppm (STEL); A4; BEI (1996)

OSHA: 1000 ppm (TWA), 2400 mg/m³ (TWA);
750 ppm (TWA); 1000 ppm (STEL) [Vacated];

Ethyl acetate [CAS No. 141-78-6]

ACGIH: 400 ppm (TWA); (1979)

OSHA: 400 ppm (TWA), 1400 mg/m³ (TWA);

Isopropanol [CAS No. 67-63-0]

ACGIH: 200 ppm (TWA); 400 ppm (STEL); A4; BEI (2001)

OSHA: 400 ppm (TWA), 980 mg/m³ (TWA);
500 ppm (STEL) [Vacated];

Isobutane [CAS No. 75-28-5]

ACGIH: 1000 ppm (TWA); (2012)

OSHA: No PEL established.

Propane [CAS No. 74-98-6]

ACGIH: Asphyxia

OSHA: 1000 ppm (TWA), 1800 mg/m³ (TWA); For Propane.

PEL: Permissible Exposure Limit

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.

Foam Cleaner

Safety Data Sheet/Material Safety Data Sheet

Last revision: July 2014

PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection:	Wear safety glasses. Ensure that eyewash stations are close to the workstation location. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.
Hand Protection:	Wear protective gloves. Consult manufacturer specifications for further information.
Skin and Body Protection:	Wear protective clothing.
Respiratory Protection:	If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4-11, with organic vapor cartridge, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.
General Hygiene Considerations:	Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Aerosol.
Colour:	Colourless.
Odour:	Characteristic.
Odour Threshold:	Not available.
Physical State:	Gas (Aerosol spray.)
pH:	Not available.
Melting Point / Freezing Point:	-84 °C (-119.2 °F) (Ethyl acetate)
Initial Boiling Point:	Not available.
Boiling Range:	-42 °C (-43.6 °F) (Propane)
Flash Point:	-18 °C (-0.4 °F) (Acetone)
Evaporation Rate:	Not available.
Flammability (solid, gas):	See Section 5.
Lower Flammability Limit:	2.2 % (Acetone)
Upper Flammability Limit:	13 % (Acetone)

Foam Cleaner



Safety Data Sheet/Material Safety Data Sheet

Last revision: July 2014

Vapor Pressure:	> 500 kPa (in container)
Vapor Density:	> 1 (Air = 1)
Relative Density:	Not available.
Solubilities:	Soluble in water.
Partition Coefficient: n-Octanol/Water:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Percent Volatile, wt. %:	100
VOC content, wt. %:	Not available.
Density:	Not available.
Coefficient of Water/Oil Distribution:	Not available.

Section 10: STABILITY AND REACTIVITY

Reactivity:	Contact with incompatible materials. Sources of ignition. Exposure to heat.
Chemical Stability:	Stable under normal storage conditions.
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Contact with incompatible materials. Sources of ignition. Exposure to heat.
Incompatible Materials:	Strong acids. Strong bases. Oxidizers.
Hazardous Decomposition Products:	May form explosive peroxides.

Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Product Toxicity

Oral:	Not available.
Dermal:	Not available.
Inhalation:	Not available.

Component Toxicity

Component	CAS No.	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀
Acetone	67-64-1	5800 mg/kg (rat)	20 mL/kg (rabbit)	50100 mg/m ³ (rat); 8H
Ethyl acetate	141-78-6	5620 mg/kg (rat)	> 20 mL/kg (rabbit)	45000 mg/m ³ (rat); 2H
Isopropanol	67-63-0	3600 mg/kg (mouse)	12800 mg/kg (rabbit)	16000 ppm (rat); 8H
Isobutane	75-28-5	Not available.	Not available.	570000 ppm (rat); 15M
Propane	74-98-6	Not available.	Not available.	Not available.

Foam Cleaner



Safety Data Sheet/Material Safety Data Sheet

Last revision: July 2014

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion. Skin absorption.

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system.
Cardiovascular system. Central nervous system.

Symptoms (including delayed and immediate effects)

Inhalation: May cause drowsiness or dizziness. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness.

Eye: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Isopropanol may cause transient corneal injury.

Skin: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

Ingestion: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

Medical Conditions Aggravated By Exposure: Not available.

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Central nervous system. Cardiovascular system. Cardiovascular system. Central nervous system.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation. High vapour concentrations, generally greater than 10% by volume, may sensitize the heart and lead to lethal cardiac arrhythmias.

Carcinogenicity: Product is not classified as a carcinogen. See Component Carcinogenicity table below for information on individual components.

Component Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Prop 65
Acetone	A4	Not listed.	Not listed.	Not listed.	Not listed.
Isopropanol	A4	Group 3	Not listed.	Not listed.	Not listed.

Mutagenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects

Teratogenicity: Not available.

Embryotoxicity: Not available.

Toxicologically Synergistic Materials: Not available.

Foam Cleaner



Safety Data Sheet/Material Safety Data Sheet

Last revision: July 2014

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Acetone: Leuciscus idus melanotus: LC50 = 7,5g/L, 48- Hr; Gambusia affinis: LC50 = 15.5 g/L, 48-Hr; Daphnia magna: EC50 = 10g/L, 28-Hr. Ethyl acetate: Fish: LC50 > 200mg/L, 96-Hr; Shellfish: EC50 > 700mg/L, 48-Hr. Isopropanol: Leuciscus idus melanotus: LC50 > 100mg/L, 48-Hr; Daphnia magna: EC50 > 100mg/L, 48-Hr; Scenedesmus subspicatus: EC50 > 100mg/L, 72-Hr.
Persistence / Degradability:	Not available.
Bioaccumulation / Accumulation:	Not available.
Mobility in Environment:	Not available.
Other Adverse Effects:	May cause long-term adverse effects in the environment.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Section 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

Proper Shipping Name: UN1950, AEROSOLS, 2.1
Class: 2.1
UN Number: UN1950
Packing Group: Not applicable.
Label Code:



Canada Transportation of Dangerous Goods (TDG)

Proper Shipping Name: UN1950, AEROSOLS, 2.1
Class: 2.1
UN Number: UN1950
Packing Group: Not applicable.
Label Code:



Foam Cleaner



Safety Data Sheet/Material Safety Data Sheet

Last revision: July 2014

Section 15: REGULATORY INFORMATION

Chemical Inventories

US (TSCA)

The components of this product are in compliance with the chemical notification requirements of TSCA.

Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Federal Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification: Class A - Compressed Gas.
Class B5 - Flammable Aerosols.
Class D2B - Eye irritant.

Hazard Symbols:



United States

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III

Component	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313	RCRA CODE	CAA 112(r) TQ (lbs.)
Acetone	Not listed.	Not listed.	5000	Not listed.	U002	Not listed.
Ethyl acetate	Not listed.	Not listed.	5000	Not listed.	U112	Not listed.
Isopropanol	Not listed.	Not listed.	Not listed.	313	Not listed.	Not listed.
Isobutane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Propane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000

State Regulations

Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Component	CAS No.	RTK List
Acetone	67-64-1	Listed.
Ethyl acetate	141-78-6	Listed.
Isopropanol	67-63-0	Listed.
Isobutane	75-28-5	Listed.
Propane	74-98-6	Listed.

Foam Cleaner



Safety Data Sheet/Material Safety Data Sheet

Last revision: July 2014

New Jersey

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Component	CAS No.	RTK List
Acetone	67-64-1	SHHS
Ethyl acetate	141-78-6	SHHS
Isopropanol	67-63-0	SHHS
Isobutane	75-28-5	SHHS
Propane	74-98-6	SHHS

Note: SHHS = Special Health Hazard Substance

Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Component	CAS No.	RTK List
Acetone	67-64-1	E
Ethyl acetate	141-78-6	E
Isopropanol	67-63-0	E
Isobutane	75-28-5	Listed.
Propane	74-98-6	Listed.

Note: E = Environmental Hazard;

California

California Prop 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his own particular use.

Date of Preparation of SDS: July 7, 2014

SDS Expiry Date (Canada): July 6, 2017

Version: 1.0

GHS SDS Prepared by: Aegis Regulatory Inc.

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