

MATERIAL SAFETY DATA SHEET

Foam Cleaner

FILE NO.:

MSDS DATE: 02/05/2017

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PU Foam Cleaner 500ml (18oz) - 122253

DISTRIBUTOR: TOOLWAY INDUSTRIES LTD.

ADDRESS: 31 Conair Parkway. Woodbridge, ON, Canada L4H 0S4
Phone: (905) 326-5450 Fax: (905) 326-5451.

EMERGENCY PHONE: 1 (800) 535 5053

PRODUCT USE: Removal of the oily adhesive and other oily pollutant.
PREPARED BY: TOOLWAY INDUSTRIES LTD.

SECTION 1 NOTES: NONE

SECTION 2: HAZARDS IDENTIFICATION

Classification of Harmful, risk:

Flammable aerosols:	Class 1
Flammable liquids	Class 2
High-pressure gas:	Liquefied gas
SKIN CORROSION / IRRITATION:	Class 2
Serious eye damage / eye irritation:	Class 2
Carcinogenic:	Class 1A
Reproductive toxicity:	Class 2
Specific target organ toxicity (Single Exposure):	Class 1
Specific target organ toxicity (Single Exposure):	Class 3 (Respiratory irritation)
Specific target organ toxicity (Single Exposure):	Class 3 (Anesthetic action)
Specific target organ toxicity (Repeated Exposure):	Class 2
Aspiration hazard:	Class 1

Warning Signs: Label elements:



The Signal Word: Danger

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Risk phrases:

Extremely flammable aerosol
High-pressure gases are included: Can be exploded if heated.
May be harmful if swallowed and enters airways.
Causes skin irritation
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness
May cause cancer.
Suspected cause damage fertility or the unborn child
May cause damage to the ... of the body.
Prolonged or repeated exposure may cause damage to the body.

Precautionary Statements:

Prevention:

Obtain the manual before use.
Do not handle until all safety precautions have been read and understood
Keep away from heat, sparks, flame, high temperature: NO SMOKING
Take anti-static measures
Avoid inhalation of mists, fumes, vapors, gases, sprays.
Wash the treated area thoroughly after handling.
Do not smoke, drink or eat when using this product.
Please treat only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing, safety glasses, face shield.
Wear appropriate personal protective equipment

Response:

If swallowed, call a doctor immediately
IF ON SKIN: Wash with plenty of soap and water.
If skin or hair is contaminated, remove all clothing off or wash skin with water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Do not induce vomiting.
If skin irritation occurs, obtain medical attention, advice please.
If eye irritation persists, please seek medical attention and advice.
Take off and contaminated clothing and wash before re-use.
In case of gas-leakage fire, do not try to turn off the fire if you cannot stop the leakage safely.
Please remove all sources of ignition if possible to safely handle

Store:

Store in a well-ventilated place and Keep cool

Disposal:

Dispose of the contents and container in accordance with the relevant laws and regulations

NFPA hazard codes :

Material	Health	Fire	Reactivity
Butane	2	3	0
Isopropyl alcohol	1	3	0
Acetone	1	4	0
Propane	1	4	0

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SECTION 2 NOTES: NONE

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description:

Base substances of preparation:

Declaration of the ingredients

INGREDIENT	CAS NO	Percentage(%)
Butane	106-97-8	10-20
Isopropyl alcohol	67-63-0	20-30
Acetone	67-64-1	30-40
Propane	74-98-6	5-10

SECTION 3 NOTES: NONE

SECTION 4: FIRST AID MEASURES

EYES:

Wash immediately with a large amount of water.

Protect un-contaminated eye.

Remove contact lens.

If eye irritation persists, seek medical advice.

SKIN:

Wash contact areas with soap and water immediately.

Take off all contaminated clothing.

See a doctor if you experience skin irritation or erythema.

Isolated the contaminated area.

On mild skin irritation, prevent the expansion of the contaminated area.

In case of burns, cool the affected area immediately with cold water as long as possible, do not remove the clothes which are built up on skin.

If contacted with liquefied gas, please melt the area with lukewarm water.

INGESTION:

Do not induce vomiting but see a doctor.

Does not perform mouth-to-mouth resuscitation if swallowed or inhaled.

Use appropriate medical respiratory apparatus.

INHALATION:

Do not induce vomiting

If exposed to the excessive amount of dust or fume, remove with clean air.

If cough or other symptoms, take a medical attention.

Indication of any immediate medical attention and special treatment needed

When exposed, contact the medical team and take a special first-aid measures.

Fully aware of the substance and Take precautionary measures.

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SECTION 4 NOTES: NONE

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: powder, carbon dioxide, Halon 1211, water spray jet, Fine water spray
Extinguishment by smothering use dry sands or soils.
Extinguishing media which must not be used: No data available.

Specific hazards arising from the substance or mixture

No data available

Advice for firefighters

Please remove all sources of ignition if it is possible to handle safely.
If it is not dangerous, please move the container from fire-area.
Please extinguish by maintaining a safe distance out of the area.
Wear protective equipment.

SECTION 5 NOTES: NONE

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Do not inhale dust, fume, gas, mist, vapor, spray.
Very fine particles may cause an explosion or fire, so please remove all sources of ignition.
Immediately wipe spills and follow the preventive measures.
Banning the persons who do not wear protective equipment.
Remove sources of ignition
Ensure adequate ventilation
If it is not dangerous, stop the leakage.
Some leave a flammable residue after evaporation, so beware.

Do not touch the broken container or spills without wearing adequate protection.
Prevent the spread by covering with plastic sheets.

Environmental precautions

Do not empty into drains / surface water / ground water
Do not spread the vapors via drains, ventilation equipment, or confined space.

Methods and material for containment and cleaning up

Build embankment for extinguishment and absorb water.
Removed by absorption with an inert material and put it in a chemical waste container.
Absorb the liquid and Rinse the contaminated area with detergent and water.
For large amounts of leakage, make a ditch by making a distance with liquid spills.
Please collect absorbed material by using clean explosion-proof tools.

SECTION 6 NOTES: NONE

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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Do not handle until all safety precautions have been read and understood.

Use explosion proof electricity, ventilation, lighting equipment.

Please use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid inhaling dust, fume, gas, mist, vapor, spray

Wash thoroughly the treated area after use.

Do not eat, drink or smoke when use this product.

Only handle in a place of outdoor or well-ventilated.

Even after the container is emptied, the product residue still remains, so please follow all MSDS/Label precautionary aids.

Keep attention to the handling, storage and use.

Prevent the long-term or continuous skin contact.

Please note the substances and conditions to be avoided.

Conditions for safe storage, including any incompatibilities

Avoid Heat, sparks, high heat, high temperature – Non Smoking.

Store in a cool place in closed original container.

Avoid the direct sunlight and keep in a well-ventilated place.

If the container is exposed to heat, pressure can climb. So please avoid the exposure to the heat.

Keep away from food and drink.

SECTION 7 NOTES: NONE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure limits of chemicals, Biological exposure limits:

Local regulation:

Butane

TWA – 800 ppm 1900mg/m³

Isopropyl alcohol

TWA – 200 ppm 480mg/m³ STEL – 400 ppm
980mg/m³

Acetone

TWA – 500 ppm 1188mg/m³ STEL – 750 ppm
1782mg/m³

Propane

No data available

ACGIHH regulation:

Butane

TWA 1000 ppm

Isopropyl alcohol

TWA 200 ppm

STEL 400 ppm

Acetone

TWA 500 ppm

STEL 750 ppm

Propane

No data available

Biological exposure limit

No data available

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Appropriate Engineering controls

Please use process isolation, local exhaust, or other engineering controls to adjust the air levels below the exposure guidelines.

If dust, fume or mist occurs when operates, please ventilate so that air pollutants are maintained below the exposure guideline.

The facilities that store or use this material should install washing facilities and safety shower..

Personnel Protective Equipment

Respiratory protection: Wear the Respirators to meet the physicochemical properties of the substance being exposed to and certified with the Korea Occupational Safety and Health Agency

SECTION 8 NOTES: NONE

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance	Aerosol(Solvent) clear
Odor	Aromatic
Ph	No data available
Initial boiling point	Acetone: 56 °C/Isopropyl Alcohol: 82 °C
Flash point	No data available
Decomposition temperature	No data available
Vapor pressure	Acetone: 180 mmHg (20 °C)/Isopropyl alcohol: 40mmHg (24°C)
Density	Acetone: 0.7899 g/cm3/Isopropyl Alcohol: 0.7855 g/cm3
Bulk density	No data available
Viscosity	approximately 2.1 cps (25 °C)
Viscosity(kinematic)	No data available
Explosive properties	No data available
Solubility (qualitative)	soluble
Solidification temperature	No data available
Melting point	Acetone: - 95 °C/Isopropyl Alcohol: -89 °C
Volatility	100 %
Falammability	No data available
Auto-ignition temperature	No data available
Explosive limits	No data available
Partition coefficient: n-octanol/water	No data available
Evaporation rate	No data available
Vapor density	Acetone: 2.0 / Isopropyl Alcohol: 2.1
Oxidizing properties	No data available
Molecular Weight	Acetone: 58.08/Isopropyl alcohol: 60.1

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Other information

No data available / Not applicable

SECTION 9 NOTES: NONE

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid:

Heat, Spark, flame and other ignition sources.

Materials to avoid: Strong Alkali or Metal Compounds and Reducing agent.

Chemical Stability and reactivity

Flashpoint or more can form explosive mixtures.

If heated, the container can be exploded.

High-flammable: Easily ignited by heat, spark, flame.

Indoors, outdoors, in the sewers, vapors can be exploded.

Steam can move to the ignition source and may do the flash back.

The spills have the risk of fire and explosion.

Steam without awareness may cause dizziness or suffocation.

Fire can cause irritant, corrosive, toxic gas.

Inhalation and contact make irritation or burns to the skin and eye.

Chemical Stability: Stable in normal temperature and pressure.

Hazardous decomposition products:

The combustion makes oxygen compound (CO or CO₂) which is hazardous to the body.

Irritant, Corrosive, Toxic gas

While burning, by thermal decomposition or combustion, irritant and very poisonous gas may occur.

SECTION 10 NOTES: NONE

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation can be accumulated in blood and urine.

Feel headache and fatigue.

Cough, paralysis may be possible

SECTION 11 NOTES: NONE

SECTION 12: ECOLOGICAL INFORMATION

Can contaminate Wastewater, soil, surface water, so do not enter.

That pollution is toxic for aquatic organisms.

The combustion makes oxygen compound (CO or CO₂).

SECTION 12 NOTES: NONE

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product disposal: Dispose of waste and residues in accordance with local authority requirements.

Recommended disposal: Incinerate in a permitted hazardous waste incinerator. Do not dispose of in a sanitary landfill.

SECTION 13 NOTES: NONE

SECTION 14: TRANSPORT INFORMATION

Transport over land ADR/RID:

Class:	2
Number/Letter:	5F
2nd numbering of tanks panel:	1950
Designation of goods:	1950 Aerosol

Transport over sea IMDG:

Class :	2.1 /16/a
UN-No. :	1950
PG/EmS/MFAG:	9003/2-13/4.2
Proper shipping name:	Aerosol, Limited Quantity

Transport by air ICAO/IATA) :

Class:	2.1
UN/ID No:	1950
Proper shipping name:	Aerosol, flammable, n.o.s. limited quantity.

SECTION 14 NOTES: NONE

SECTION 15: REGULATORY INFORMATION

Regulated by the Occupation Safety and Health Act:

In accordance with Occupational Health and Safety Act, this product is the object which should be written and placed with applications and warning signs and in case of transfer and provision, this material also transferable or to be provided.

Regulated by harmful chemical Substances:

These products are target materials for the report by the High-Pressure Gas Safety Control and warning signs.

Regulated by the local and foreign country's Act:

Germany:

Hazardous Symbols: F+, High-Flammable Materials

Xn, Hazardous Materials

Hazardous Warnings: R 11/ R 12/ R 13, Flammability is extremely high.

Safety Warnings:

1) S2: Keep out of reach of the children

2) S9: Keep in a well ventilated place

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- 3) S16: Keep away from ignition sources – NO Smoking
- 4) S23: Do not inhale gas/mist/vapor/spray of the product
- 5) S26: In case of eye contact, wash immediately with a large amount of water and seek a doctor's help
- 6) S33: Take precautionary measures against electrostatic.

SECTION 15 NOTES: NONE

SECTION 16: OTHER INFORMATION

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.