

MATERIAL SAFETY DATA SHEET

TA460

FILE NO.:
MSDS DATE: 09/05/2017

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Spray Adhesive 425g (15oz) - 122254

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: Fully adhesive paper, textile, plastic and Styrofoam, etc.

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

SKIN CORROSION / IRRITATION: class 2

Serious eye damage / eye irritation: class 2

Skin sensitization: class 2

Reproductive toxicity: class 2

Specific target organ toxicity (Single Exposure): Class 2

Specific target organ toxicity (Single Exposure): Class 3 (Respiratory irritation)

Specific target organ toxicity (Single Exposure): Class 3 (Anesthetic action)

Aspiration hazard: class 1

Chronic aquatic environmental hazards: Class 3

Warning Signs:

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Risk phrases:

Extremely flammable aerosol
Highly flammable liquid and vapor
Fatal if inhaled
May cause respiratory irritation
May cause drowsiness or dizziness.
Suspected cause damage fertility or the unborn child
Can cause damage to the central nervous system (CNS).
Prolonged or repeated exposure may cause damage to the skin, degreasing
Harmful to aquatic life with long lasting effects

Safety phrases:

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
Please use only outdoors or in a well-ventilated place
Avoid release to the environment
Wear appropriate personal protective equipment
If swallowed, call a doctor immediately
IF ON SKIN: Wash with plenty of soap and water.
Exposed or you feel discomfort, call a doctor
Please remove all sources of ignition if possible to safely handle
Store in a well-ventilated place and Keep cool
Dispose of the contents and container in accordance with the relevant laws and regulations

- NFPA hazard codes : Health 2, Fire 4, Reactivity 0
- Unusual reaction hazard: none

SECTION 2 NOTES: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description:

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Base substances of preparation:

Declaration of the ingredients

Ingredients	CAS NO	Percent(%)
SBR	trade secret	10~20
Hydrocarbon resin	trade secret	10~20
Cyclohexane	110-82-7	10~30
Isohexane	64742-49-0	10~30
Isobutane	75-28-5	10~20
Propane	74-98-6	10~20
DME	115-10-6	10~20

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact :

Wash immediately with a large amount of water.
Severe symptoms, see a your doctor.
Take off, preferably a contact lens

Skin contact :

Wash contact areas with soap and water immediately.
Take off all contaminated clothing.
See a doctor if you experience skin irritation or erythema.

Inhalation :

Move to fresh air.
Exposure is severe, or if you feel discomfort, see a doctor.

IF SWALLOWED:

Do not induce vomiting but see a doctor.
Does not perform mouth-to-mouth resuscitation if swallowed or inhaled.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

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When exposed, contact the medical team and take a special first-aid measures.
Fully aware of the substance and Take precautionary measures.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: powder, carbon dioxide, water spray jet, Fine water spray

Extinguishing media which must not be used for safety reasons:

5.2 Speicail hazards arising from the substance or mixture

Flammable liquid and vapor

Wild polymerization reaction that could cause a fire and explosion.

Burning can cause irritation and toxic gases or toxic fumes.

In case of fire, keep containers cool with water spray.

5.3 Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale gas, vapor, spray.

Avoid contact with skin and eyes

Wear protective equipment

Remove sources of ignition

Ensure adequate ventilation

Isolate the contaminated area.

Banning the persons who do not wear protective equipment.

6.2 Environmental precautions

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Do not empty into drains / surface water / ground water
Do not spread to Confined space.

6.3 Methods and material for containment and cleaning up

Banks embankment in the vicinity of the leak.
Removed by absorption with an inert material.
Put it in a chemical waste container.

6.4 Reference to other sections

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not inhale the vapor, gas, and fumes.
Take precautionary measures against static discharge.
Please use explosion-proof equipment.
Ensure that workrooms are adequately ventilated.
Do not handle until all safety precautions have been read and understood.

7.2 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.

7.3 Specific end use(s)

Permanent spray adhesive

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Exposure limits of chemicals, Biological exposure limits:

Local regulation – Cyclohexane: TWA – 200ppm 700mg/m³

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ACGIHH regulation – Isobutane: TWA – 1000 ppm
Cyclohexane: TWA – 100 ppm

8.2 Exposure controls

Engineering controls:

Ensure good ventilation/extraction

Respiratory protection:

Ensure adequate ventilation

An approval mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilation area.

Hand protection:

Chemical-resistant protective gloves

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Skin protection:

Wear suitable protective clothing

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	liquid
	Amber color
Odor	Solvent
Ph	No data available
Initial boiling point	No data available
Flash point	- 5 °C
Decomposition temperature	No data available
Vapor pressure	No data available
Density	0.67 g/cm ³
(20 °C (68 F))	
Bulk density	No data available

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Viscosity	No data available
Viscosity(kinematic)	No data available
Explosive properties	No data available
Solubility (qualitative)	No data available
[(20 °C (68 F); Solvent: Water)	
Solidification temperature	No data available
Melting point	No data available
Flammability	Flammable Gas included
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	No data available
Oxidising properties	No data available

9.2 Other information

No data available / Not applicable

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None if used for intended purpose.

Chemical stability: Ignition or explosion can be when being mixed with air.

Possibility of hazardous reactions: see section reactivity

Conditions to avoid: Heat, Sparks and/or Flames

Incompatible materials: Flammable materials

Hazardous decomposition products: Irritant, corrosive, toxic gas

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

General toxicological information:

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Respiratory sensitization: Due to inhalation may cause choking, vomiting, coma

Oral: No data

Eye, Skin: Dispensed directly onto your skin, the frostbite of concern

Health hazard information

No information of the product, but the notation of the components.

Acute Toxicity:

- Oral: The rigid naphtha of Hydrogen treatment – LD50 > 5000mg/kg Rat
Cyclohexane – LD50 12705 mg/kg
- Dermal: The rigid naphtha of Hydrogen treatment – LD50 > 3160 mg/kg Rabbit
Cyclohexane – LD50 > 2000 mg/kg Rabbit
- Inhalation: Isobutane – LC50 658 mg/L 4hr Rat
Isohexane – (mist) LC50 73680 ppm 4hr Rat
Cyclohexane – LC50 70mg/L
Dimethyl ether – (gas) LC50 308.5 mg/L 4hr Rat
Propane – Dust LD50 570000 ppm 15 min Rat

Skin corrosive or irritant

- The rigid naphtha of Hydrogen treatment – mild stimulation (Rabbit)
- Cyclohexane – rabbit and human skin irritation
- Dimethyl ether - Liquid and vapor Causes skin irritation.
- Propane – Rabbit's stimulus (IUCLID)

Serious eye damage or irritant

- Cyclohexane – rabbit and human eye irritation
- Dimethyl ether – Liquid and vapor causes eye irritation

Respiratory sensitization

No data available

Skin sensitization

No data available

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Carcinogenic

No data available

Germ cell mutagenicity

No data available

Reproductive toxicity

- Cyclohexane: Lactation weight loss in animal studies, a reduction in the weight of the fetus appears. Appear to affect the male genital (Testis atrophy, sperm toxicity).
- Dimethyl ether: Impact on embryonic and fetal in experimental animals.

Target organ, systemic toxicity (1 time Exposure)

- Cyclohexane: In animal studies, CNS depression was reported. Causes damage to blood vessels in the rabbit. In humans, CNS depression was found, such as air-way irritation, dizziness, loss of consciousness, and reflection loss.
- Dimethyl ether: Consciousness is lowered upon exposure given to the effect on the central nervous system (CNS).

Target organ, systemic toxicity (Repeated Exposure)

No data available.

Aspiration hazard

- The rigid naphtha of Hydrogen treatment: Aspiration concerns harmful.
- Cyclohexane: There is a danger of chemical pneumonia by contamination if swallowed.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

General ecological information:

Ecotoxicity: No information of the product, but the notation of the components.

- Fish: Propane – LC50 > 100 mg/L 96 hr etc [Test species: Fish TLm]
- Shell fish: Cyclohexane – EC50 0.9 mg/L 48hr
- Bird: Propane – LC50 32. 252 mg/L 96hr

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Persistence and Biodegradability: No data available

Bioaccumulative potential: No data available

Mobility: No data available

Others: No data available

SECTION 12 NOTES:

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:

SECTION 14: TRANSPORT INFORMATION

Transport over land ADR/RID:

Class:	2
Number/Letter:	10b1
2nd numbering of tanks panel:	1950
Designation of goods:	1950 Aerosol

Transport over sea IMDG:

Class :	2.1
UN-No. :	1950
PG/EmS/MFAG:	/2-13/a
Proper shipping name:	Aerosol (Flammable Gas Label)

Transport by air ICAO/IATA) :

Class:	2.1
UN/ID No:	1950
PG:	II
Pkg-Instr. (Passenger air):	203
Pkg-Instr. (Cargo air. Only):	203
Proper shipping name:	Aerosol, flammable Gas Label

Inland Trucking:

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Class: 2
Number/Letter: 10b1

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

Regulated by the Occupation Safety and Health Act:

Cyclohexane: management target
Working Environment Measurement material (measurement cycle: 6 month)
Special health diagnostic substances (Diagnostic cycle: 12 month)
Exposure limits set material

Regulated by harmful chemical Substances:

No data available

Regulated by Safety Control of Dangerous Substances Act:

Cyclohexane: 4th class, Alcohol class, 200 liter

Regulated by Wastes Control Act:

Designated waste containing (Isobutane, Propane, The Rigid Naphtha of Hydrogen treatment, Cyclohexane, Dimethyl ether)

Regulated by the local and foreign country's Act:

USA(CERCLA): Cyclohexane – 453.599 kg 1000lb
Europe Classification Information: F, R12

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.