2/19/2024: File reviewed; more current MSDS/SDS not available. CAS

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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: **FORM-A-SEAL LEAK REPAIR 5OZ AE**
Item No: **82096**
Product Type: **Aerosol sealant**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
ACETONE 67-64-1	25-45	500 ppm	1000 ppm; 2400 mg/m^3
TOLUENE 108-88-3	<15	20 ppm	200 ppm
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. 64742-88-7	<10	Not listed	Not listed
2-PROPANOL 67-63-0	<10	200 ppm	400 ppm; 980 mg/m^3
PROPANE 74-98-6	<10	1000 ppm	1000 ppm; 1800 mg/m^3
BUTANE 106-97-8	<10	1000 ppm	800 ppm; 1900 mg/m^3
XYLENE 1330-20-7	<5	100 ppm	100 ppm; 435 mg/m^3
N-HEXANE 110-54-3	<2	50 ppm	500 ppm; 1800 mg/m^3
ETHYL BENZENE 100-41-4	0.1-1.0	20 ppm	100 ppm; 435 mg/m^3

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye, skin and respiratory irritation. Aspiration hazard if swallowed. Intentional misuse by concentrating and inhaling the vapor may be harmful or fatal. n-Hexane may damage peripheral nerve tissue. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as "solvent" or "painter's syndrome"). Symptoms include fatigue, concentration difficulties, anxiety, depression, rapid mood swings, and short-term memory loss. Long term exposure to high concentrations of vapor may cause lung, liver or kidney damage.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation

Signs and Symptoms of Exposure: Overexposure may cause eye and skin redness. Excessive overexposure may cause giddiness, dizziness, headache, nausea and in extreme cases, unconsciousness and respiratory depression.

Component	Weight%	NTP	ACGIH Carcinogens	IARC Carcinogen
ACETONE 67-64-1	25-45	Not Listed	A4 - Not Classifiable as a Human Carcinogen	
TOLUENE 108-88-3	<15	male rat-no evidence; female rat-no evidence; male mice-no, female mice-no	A4 - Not Classifiable as a Human Carcinogen	Group 3; Monograph 71, 1999; Monograph 47, 1989
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH. 64742-88-7	<10	male rat-some evidence, female rat-no evidence, male mice-no evidence, female mice-equivocal evidence		
2-PROPANOL 67-63-0	<10	Not Listed	A4 - Not classifiable as a human carcinogen	Group 3 Monograph 71, 1999; Supp.7, 1987; Monograph 15, 1977
PROPANE 74-98-6	<10	Not Listed		

Component	Weight%	NTP	ACGIH Carcinogens	IARC Carcinogen
BUTANE 106-97-8	<10	Not Listed		
XYLENE 1330-20-7	<5	male rat-no evidence; female rat-no evidence; male mice-no evidence; female mice-no evidence	A4 - Not Classifiable as a Human Carcinogen	Group 3: Monograph 71, 1999; Monograph 47, 1989
N-HEXANE 110-54-3	<2	Not Listed		
ETHYL BENZENE 100-41-4	0.1-1.0	male rat-clear evidence; female rat-some evidence; male mice-some evidence; female mice-some evidence	A3 Confirmed animal carcinogen with unknown relevance to humans	Group 2B Monograph 77, 2000

Aggravated Medical Condition: Heart disease, respiratory disorders, liver and kidney diseases, amenia, rhythm disorders of the heart. Toluene: Eye, liver, skin, respiratory and central nervous system disorders, alcoholism.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes If skin irritation persists, call a physician

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°): <0° F Based on propellant

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus. Keep containers cool. Use equipment or shielding required to protect against bursting or venting of containers. Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool.

Hazardous Products of Combustion: Oxides of carbon

Unusual Fire/Explosion Hazards: Contents under pressure. Exposure to temperatures over 120 degrees F. may cause bursting or venting. Use equipment or shielding to protect personnel from bursting containers.

Lower Explosive Limit: 1.0

Upper Explosive Limit: 12.8

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage: Store away from heat, sparks or open flame. Do not store at temperatures above 100°F (38°C). Exposure to high temperatures may cause container to burst.

Handling: Do not use near heat, sparks or open flame. Extinguish all flames, pilot lights and heaters. Turn off stoves, electric tools and appliances, and other sources of ignition. Vapors may accumulate readily and may ignite explosively. Do not puncture or incinerate container. Avoid contact with skin and eyes. Use in a well ventilated area. Intentionally concentrating and inhaling the vapor may be harmful or fatal. Wash hands before eating and smoking. Discard contaminated leather gloves and shoes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.

Skin: Neoprene or nitrile gloves recommended.

Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

Respiratory Protection: An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor:	Solvent
Boiling Point:	<0°F - 395°F
pH:	n/ap
Solubility in Water:	Nil
Specific Gravity:	0.77
VOC(Wt.%):	54.4%
Vapor Pressure:	36 psi @ 70°F
Vapor Density (Air=1):	>1
Evaporation Rate:	>1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal conditions
Hazardous Polymerization:	Will not occur
Incompatabilities:	Strong oxidizers
Conditions to Avoid:	Keep away from heat, sparks and open flame.
Hazardous Products of Combustion:	Oxides of carbon

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:	Disposal should be made in accordance with federal, state and local regulations. This container may be recycled in aerosol recycling centers. Before offering for recycling, empty the can by using the product according to the label. If recycling is not available, wrap the container and discard in the trash.
US EPA Waste Number:	D001 as per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

U.S. Department of Transportation - DOT - 49 CFR (Ground)

DOT Shipping Name:	Aerosols, Limited Quantity
Hazard Class:	Class 2.1
UN/ID Number:	UN 1950

IATA (Air)

Proper Shipping Name:	Consumer Commodity
Class or Division:	Class 9
UN/ID Number:	ID 8000

IMDG (Vessel)

Proper Shipping Name:	Aerosols, Limited Quantity
Hazard Class:	Class 2.1
UN Number:	UN 1950
Marine Pollutant:	None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

TOLUENE, XYLENE, N-HEXANE, ETHYL BENZENE

California Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 4 , REACTIVITY 0.
Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 4, PHYSICAL HAZARD 0
(NFPA is a registered trademark of the National Fire Protection Association)
(HMIS is a registered trademark of the National Paint and Coatings Association)

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