



1. PRODUCT AND COMPANY IDENTIFICATION

Company

Product Name: Plastic Adhesive 4475
Manufacturer: Greenstreak Group
Address: 3400 Treecourt Industrial Blvd
St. Louis MO, 63122

Issue Date: 11/16/2004
Supercedes Date: 05/24/2001
Document Group: 10-2966-9
Product Use:

Greenstreak Product(s): G-Seal Plastic Adhesive

2. COMPOSITION/ INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Content(% by WT)</u>	<u>Chemical Name</u>
78-93-3	50-60	METHYL ETHYL KETONE
56815-45-3	15-25	POLYURETHANE POLYMER
9005-09-8	15-25	VINYL CHLORIDE-VINYL ACETATE-MALEIC ACID POLYMER
25068-38-6	0.1-1	EPOXY RESIN

3. HAZARDS IDENTIFICATION

Emergency Overview

Odor, Color, Grade: clear, ketone odor

General Physical Form: Liquid

Immediately health, physical, and environmental hazards: Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause allergic skin reaction. May cause target organ effects.

Potential Health Effects

Eye Contact: Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:

Moderate Skin Irritation: Signs/ symptoms may include localized redness, swelling, itching, and dryness.

Prolonged or repeated exposure may cause:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness,



swelling blistering, and itching.

Inhalation: Upper Respiratory Tract Irritation: Sign/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

Ingestion: Gastrointestinal Irritation: Signs/ symptoms may include abdominal pain, nausea, diarrhea and vomiting.

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, unconsciousness.

4. FIRST AID MEASURES

General Advice:

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

If inhaled:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

If on skin:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

If in eyes:

Flush eyes with large amounts of water. If signs/ symptoms persist, get medical attention.

If swallowed:

Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties:

Autoignition temperature:	No Data Available
Flash Point:	20°F (Test Method: Tagliabue Closed Cup)
Flammable Limits - LEL	1.80% volume
Flammable Limits - UEL	11.50% volume

Suitable extinguishable media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Hazards during fire fighting:



Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Protective equipment for fire fighting:

Water may not effectively extinguish fire; however, it should be used to keep fire- exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self- contained breathing apparatus (SCBA).

Further information:

See STABILITY AND REACTIVITY (SECTION10) for hazardous combustion and thermal decomposition information.

6. ACCIDENTAL RELEASE MEASURES

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M- HELPS line (1-800-364-3577) for more information on handling the managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Cover spill area with a fire- extinguishing foam. An aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible using non- sparking tools. Clean up residue with an appropriate solvent label and MSDS. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

7. HANDLING AND STORAGE

Handling

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Avoid breathing of vapors, mists or spray. Avoid static discharge. Avoid eye contact with vapors, mists or spray. Avoid contact with oxidizing agents.

Storage

General Advice:

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area. Keep container tightly closed. Store away from oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



Advice on system design

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on open containers.

Personal Protective Equipment

Respiratory protection:

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulation: Half facepiece or fullface air – purifying respirator with organic vapor cartridges. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

Skin protection:

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Butyl Rubber, Polyethylene/ Ethylene Vinyl Alcohol.

Eye/Face protection:

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields, Indirect Vented Goggles.

Prevention of Swallowing:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
METHYL ETHYL KETONE	ACGIH	TWA	200ppm	
METHYL ETHYL KETONE	ACGIH	STEL	300ppm	
METHYL ETHYL KETONE	OSHA	TWA	200ppm	Table Z-1A
METHYL ETHYL KETONE	OSHA	STEL	300ppm	Table Z-1A
STEARATES	ACGIH	TWA, as total dust	10mg/m3	Table A4

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL).

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Odor: Ketone
Color: Clear



Autoignition temperature	No Data Available
Flash Point	20.00°F (Test Method: Tagliabue Closed Cup)
Flammable Limits- LEL	1.80% volume
Flammable Limits- UEL	11.50 % volume
Boiling Point:	176.00°F (Details: CONDITIONS: (methyl ethyl ketone))
Vapor Density:	2.50 (Ref Std: AIR=1)
Vapor Pressure:	80.0000 mmHg (@ 68°F)
Specific Gravity	0.950 (Ref Std: WATER=1)
Hazardous Air Pollutants	58% weight
Hazardous Air Pollutants	4.6 lb HAPS/gal
Hazardous Air Pollutants	1.38 lb HAPS/lb solids
Volatile Organic Compounds	568g/l (Test Method: South Cost Air Qual Mgmt Dist) (Details: CONDITIONS: Rule 443.1, calculated)
Volatile Organic Compounds	59% weight
Volatile Organic Compounds	4.62 lb/gal
Percent volatile	60.00 % weight
VOC Less H2O& Exempt Solvents	568 g/l (Test Method: South Cost Air Qual Mgmt Dist) (Details: CONDITIONS: Rule 443.1, calculated)
Viscosity	8500.0 centipoise

10. STABILITY AND REACTIVITY

Stability:

Stable

Materials and Conditions to avoid:

Strong oxidizing agents

Hazardous Polymerization:

Hazardous polymerization will not occur.

Hazardous Decomposition or By- Products

<u>Substance</u>	<u>Condition</u>
Aldehydes	During Combustion
Hydrocarbons	During Combustion
Carbon monoxide	During Combustion
Hydrogen Chloride	During Combustion
Ketones	During Combustion
Oxides of Nitrogen	During Combustion

11. TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.



12. ECOLOGICAL INFORMATION

Not determined

13. DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Reclaim solvent if feasible. Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility. Combustion products will include HCl. Facility must be capable of handling halogenated materials.

EPA Hazardous Waste Number (RCRA):

D001 (Ignitable), D035 (Methyl ethyl ketone)

Since regulations vary, consult applicable regulations or authorities before disposal.

14. TRANSPORT INFORMATION

ID Number(s):

62-4475-0635-3, 62-4475-2631-0, 62-4475-2635-1, 62-4475-6530-0, 62-4475-8530-8,
62-4475-8531-6, 62-4475-9530-7

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

15. REGULATORY INFORMATION

Federal Regulations

Contact 3M for more information

SARA hazard categories (EPCRA 311/312):

Fire Hazard – Yes Pressure Hazard – No Reactivity Hazard – No Immediate Hazard – Yes
Delayed Hazard – No

Section 313 Toxic Chemicals subject to the reporting requirements of that section 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	<u>C.A.S. No</u>	<u>% by Wt</u>
METHYL ETHYL KETONE	78-93-3	50 – 60

State Regulations

Contact 3M for more information

CHEMICAL INVENTORIES:

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



All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

Contact 3M for more information.

INTERBAL REGULATIONS

Contact 3M for more information

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

16. OTHER INFORMATION

NFPA Hazard Classification

Health: 2 Flammability: 3 Reactivity:0 Physical Hazard: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short- term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

No revision information is available.

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