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Material Safety Data Sheet
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1 Chemical Product and Company Identification

Tradename:
3M(TM) SCOTCH-WELD(TM) INDUSTRIAL PLASTIC ADHESIVE 4475
Product ID:
62-4475-0635-3 62-4475-2631-0 62-4475-6530-0 62-4475-8530-8
62-4475-8531-6 62-4475-9530-7 62-4475-2635-1
Intended Use of Product:
Adhesive;
Industrial use;
Division:
INDUSTRIAL ADHESIVES AND TAPES

2 Hazards Identification

Critical Hazards:
Extremely flammable liquid and vapour.
Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.
May be absorbed following inhalation and cause target organ effects.
May be absorbed following ingestion and cause target organ effects.
See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
METHYL ETHYL KETONE	78-93-3	50 - 60
POLYURETHANE POLYMER	56815-45-3	15 - 25
VINYL CHLORIDE-VINYL ACETATE-MALEIC ACID POLYMER	9005-09-8	15 - 25
4,4'-ISOPROPYLIDENEDIPHENOL- EPICHLOROHYDRIN POLYMER	25068-38-6	0.1 - 1.0

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

4 First Aid Measures

Instructions for Eye Contact:

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

Instructions for Skin Contact:

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

Instructions for Inhalation:

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

Instructions for Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Get medical attention.

5 Fire Fighting Measures

Flash point: -8.9 C CC (MEK)

Lower Explosive Limit (%): 1.8 % by volume

Upper Explosive Limit (%): 10 % by volume

Autoignition temperature: 404 C

Suitable Extinguishing Media:

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

Exposure Hazards during Fire:

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

Combustion Products from Fire:

Aldehydes - During Combustion;

Hydrocarbons - During Combustion;
Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;
Hydrogen Chloride - During Combustion;
Ketones - During Combustion;
Oxides of Nitrogen - During Combustion;

Unusual Fire and Explosion Hazards

None known.

Fire Fighting Procedures:

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).

NFPA: Health	2
NFPA: Fire	3
NFPA: Reactivity	0

NFPA: Unusual Reaction 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.

6 Accidental Release Measures

Personal Precautions:

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 and managing the spill.

Environmental Procedures

No data available.

Methods for cleaning up

No data available.

Spill Response:

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 selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the 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.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Store away from acids;
Store away from heat;
Store out of direct sunlight.
Store away from oxidizing agents.
Sparks and/or Flames;

Ventilation:

Keep container in well-ventilated area.

Fire Prevention:

Extremely flammable liquid and vapour.
Ground containers securely when transferring contents. Wear low static or properly grounded shoes.

Static Prevention:

Avoid static discharge.

Use Instructions:

For industrial or professional use only.
Contents may be under pressure, open carefully. Keep container tightly closed. Vapours may ignite explosively. May cause flash fire. Prevent build-up of vapours - open all windows and doors. Maintain vapour concentrations below recommended exposure limits. Use only with cross-ventilation. Without adequate ventilation, vapours may settle in low-lying areas. Keep away from heat, sparks, and open flame. Do not smoke or ignite matches, lighters, etc. Avoid contact with oxidizing agents. Avoid eye contact with vapours, mists, or spray.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray.
The following should be worn alone or in combination, as appropriate, to prevent eye contact:
Indirect vented goggles;
Safety glasses with side shields

Hand Protection:

Wear appropriate gloves when handling this material.
The following glove material(s) are recommended:
butyl rubber;
polyethylene/ethylene vinyl alcohol;

Skin Protection:

Avoid skin contact.
Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.
Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:
Half facepiece or fullface air-purifying respirator with organic vapor cartridges.

Ingestion (Prevention):

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

Recommended Ventilation:

Use with appropriate local exhaust ventilation.
Provide appropriate local exhaust ventilation on open containers.
If exhaust ventilation is not available, use appropriate respiratory protection.

Ingredient Exposure Data

METHYL ETHYL KETONE (78-93-3)	
LD50 (rat, oral)	2737 mg/kg
LD50 (dermal, rabbit)	6480 mg/kg
LC50 (rat, inhalation/4 hours)	47,000 mg/m3
Exposure Limits	
ACGIH: STEL 885 mg/m3	
ACGIH: STEL 300 ppm	
ACGIH: TWA 590 mg/m3	

ACGIH: TWA 200 ppm

POLYURETHANE POLYMER (56815-45-3)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

VINYL CHLORIDE-VINYL ACETATE-MALEIC ACID POLYMER (9005-09-8)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (25068-38-6)

LD50 (rat, oral)

11400 mg/kg

LD50 (dermal, rabbit)

23.4 g/kg

LC50 (rat, inhalation/4 hours)

> 791 mg/m3

Exposure Limits

No data available.

9 Physical and Chemical Properties

Physical form,Color,Odour: Liquid; Clear; ketone odour;
Odour Threshold: No data available.
pH: Not applicable
Boiling point/boiling range: >= 80 C (MEK)
Melting point/melting range: Not applicable
Vapour pressure: <= 91 mmHg at 25 C
Water Solubility: Slight (< 10 %)
Specific gravity: 0.95 Water=1
Vapour density: 2.5 Air=1
Volatile organic compounds: 600 gms/liter Calculated
per SCAQMD Rule 443.1
63 % by weight
5 lb/gal Calculated per
SCAQMD Rule 443.1
Evaporation rate: 2.7 Water=1
Viscosity: 8500 centipoise at 23 C
Percent Volatile: 55 - 65 % by weight

10 Stability and Reactivity

Conditions to Avoid:

Heat;
Store out of direct sunlight.
Sparks and/or Flames;

Materials to Avoid:

Strong oxidizing agents;
Store away from acids;

Hazardous Decomposition:

Aldehydes - During Combustion;
Hydrocarbons - During Combustion;
Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;
Hydrogen Chloride - During Combustion;
Ketones - During Combustion;
Oxides of Nitrogen - During Combustion;

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

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

Effects from Skin Contact:

Mild Skin Irritation: Signs/symptoms can include localized redness, swelling, and itching.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Effects from Inhalation:

May be absorbed following inhalation and cause target organ effects.
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:

May be absorbed following ingestion and cause target organ effects.
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Sensitization Information:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.
Component Based Information:
No data available.
Product Based Information:
No data available.
Other Effects & Information:
Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

12 Ecological Information

Environmental Data:
Ecotoxicity Data:
Not determined.
Ecofate Data:
Not determined.

13 Disposal Considerations

Product as Sold:
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.
Product Packaging:
No data available.
Special Instructions:
Since regulations vary, consult applicable regulations or authorities before disposal.

14 Transport Information

Transportation of Dangerous Goods

TDG Classification:	62-4475-8531-6 Regulated Material.
	62-4475-2631-0 and 62-4475-6530-0 Consumer Commodity
Proper Shipping Name:	ADHESIVES
Class/Division:	3
UN Number:	UN 1133
Packing Group:	II

Special Information:: Contact 3M for more information.
These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

International Dangerous Goods Classification

15 Regulatory Information

WHMIS Classification: B2, D2B

NOTE:

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

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

- TSCA - Toxic Substances Control Act (USA)
- AICS - Australian Inventory of Chemical Substances
- EINECS - European Inventory of Existing Commercial Chemical Substances
- CICS - Chinese Inventory of Chemical Substances
- DSL - Domestic Substances List (Canada)
- KECI - Korean Existing Chemicals Inventory

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

- Update Tradename
- Revised Intended Use of Product
- Section 3 - Hazards Identification - Critical Hazards;
- Section 4 - First Aid Measures;
- Section 5 - Fire Fighting Measures
- Section 7 - Handling and Storage;
- Section 8 - Exposure Controls/Personal Protection;

Section 9 - Physical and Chemical Properties;
Section 10 - Stability and Reactivity;
Section 11 - Toxicological Information;
Section 13 - Disposal Considerations;
WHMIS Classification change

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