

Material Safety Data Sheet



Revision Number: 009.0

Issue date: 12/03/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Macroplast B 4431 formerly
IMPERIAL 4431 55M DRUM/55GAL
Product type: Adhesive

IDH number: 747886

Company address:
Henkel Corporation
10 Findeme Avenue
Bridgewater, New Jersey 08807

Region: United States
Contact information:
Customer Service: 1-888-480-6889
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid
Color: Cream
Odor: Solvent

HMIS:

HEALTH: *2
FLAMMABILITY: 3
PHYSICAL HAZARD: 0
Personal Protection: See MSDS Section 8

DANGER: EXTREMELY FLAMMABLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FLASH FIRE.
MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS.
CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: May cause irritation to nose and throat. Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness.
Skin contact: May cause irritation due to defatting of the skin.
Eye contact: May cause severe eye irritation.
Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspirated material can enter the lungs and result in pneumonitis.

Existing conditions aggravated by exposure: Pre-existing skin, respiratory, central nervous system, liver and kidney conditions may be susceptible.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Acetone	67-64-1	30 - 60
Toluene	108-88-3	10 - 30

IDH number: 747886

Product name: Macroplast B 4431 formerly IMPERIAL 4431 55M DRUM/55GAL
Page 1 of 5

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.
Skin contact:	Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. Get immediate medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	-16.1 °C (3.02 °F)
Autoignition temperature:	Not determined
Flammable/Explosive limits - lower:	1.7 % (Toluene)
Flammable/Explosive limits - upper:	7.1 % (Toluene)
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Firefighters should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.
Unusual fire or explosion hazards:	Overexposure to decomposition products may cause a health hazard.
Hazardous combustion products:	Oxides of carbon. Acrid smoke and fumes.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not allow product to enter sewer or waterways.
Clean-up methods:	Do not allow material to contaminate ground water system. Store in a closed metal container until ready for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. Isolate area. Keep unnecessary personnel away.

7. HANDLING AND STORAGE

Handling:	Make sure containers are properly grounded before use or transfer of material. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not cut, grind, weld, or drill on or near this container.
Storage:	For safe storage, store between 0 °C (32°F) and 46 °C (114.8 °F)

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Acetone	500 ppm TWA 750 ppm STEL	1,000 ppm (2,400 mg/m ³) TWA	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None

Engineering controls:	Ensure adequate ventilation, especially in confined areas. Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respiratory use (29 CFR 1910.134).
Eye/face protection:	Safety goggles or safety glasses with side shields.
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Cream
Odor:	Solvent
Odor threshold:	Not available
pH:	Not applicable
Vapor pressure:	Not determined
Boiling point/range:	54 - 112 °C (129.2 - 233.6 °F)
Melting point/ range:	Not determined
Specific gravity:	0.9
Vapor density:	Heavier than air.
Flash point:	-16.1 °C (3.02 °F)
Flammable/Explosive limits - lower:	1.7 % (Toluene)
Flammable/Explosive limits - upper:	7.1 % (Toluene)
Autoignition temperature:	Not determined
Evaporation rate:	Slower than diethyl ether.
Solubility in water:	Not soluble
Partition coefficient (n-octanol/water):	Not determined
VOC content:	88 %

10. STABILITY AND REACTIVITY

Stability:	Normally stable.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide.
Incompatible materials:	Strong acids and strong bases.
Conditions to avoid:	Avoid excessive heat (>46°C (>115°F)) and sources of ignition.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Acetone	No	No	No
Toluene	No	No	No

Hazardous components	Health Effects/Target Organs
Acetone	Blood, Central nervous system, Irritant, Reproductive
Toluene	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable federal, state and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product.

Hazardous waste number: D001: Ignitable. This product may contain traces of: Benzene. Therefore, it may be classified as hazardous waste under EPA RCRA (40 CFR 261.24), with waste number(s): D018. However this product is only classifiable as hazardous waste if it exhibits the characteristics of toxicity as shown by the toxicity characteristic leaching procedure (TCLP). Under RCRA, it is the responsibility of the end user of this product to determine whether it meets this criteria at the time of disposal.

14. TRANSPORT INFORMATION

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

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
DOT Reportable quantity: Toluene, Acetone

International Air Transportation (ICAO/IATA)

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II

Water Transportation (IMO/MDG)

Proper shipping name: ADHESIVES
Hazard class or division: 3
Identification number: UN 1133
Packing group: II

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA 313:

Formaldehyde (CAS# 50-00-0).
Immediate Health, Delayed Health, Fire
This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Toluene (CAS# 108-88-3).

CERCLA Reportable quantity:

Acetone (CAS# 67-64-1) 5,000 lbs. (2,270 kg)
Toluene (CAS# 108-88-3) 1,000 lbs. (454 kg)

California Proposition 65:

This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

WHMIS hazard class:

B.2, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: J. Boryszewski, Regulatory Affairs

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