

SAFETY DATA SHEET

Date Issued : 1/8/2014
MSDS No : 2108
Date Revised : 11/6/2014
Revision No : 5

MIRACLE DSA 40 Drywall and Foamboard Adhesive

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MIRACLE DSA 40 Drywall and Foamboard Adhesive

MANUFACTURER

ITW Polymers Sealants North America
 56 Air Station Industrial Park
 Rockland, MA 02370

Product Stewardship: (781) 878-7015

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation): (800) 424-9300

COMMENTS: MIRACLE is a registered trademark of Illinois Tool Works, Inc.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation, Category 2
 Target Organ Toxicity (Single exposure), Category 1
 Target Organ Toxicity (Single exposure), Category 3
 Aspiration Hazard, Category 1
 Acute Toxicity (Oral), Category 3
 Acute Toxicity (Dermal), Category 3
 Acute Toxicity (Inhalation), Category 3

Environmental:

Acute Hazards to the Aquatic Environment, Category 2
 Chronic Hazards to the Aquatic Environment, Category 2

Physical:

Flammable Liquids, Category 1

GHS LABEL



Flame



Health hazard



Exclamation mark



Environment

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H224: Extremely flammable liquid and vapour.
 H304: May be fatal if swallowed and enters airways.
 H315: Causes skin irritation.
 H301: Toxic if swallowed.
 H311: Toxic in contact with skin.
 H331: Toxic if inhaled.
 H336: May cause drowsiness or dizziness.
 H370: Causes damage to organs.
 H401: Toxic to aquatic life.

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H411: Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)

Prevention:

- P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- P233: Keep container tightly closed.
- P240: Ground/bond container and receiving equipment.
- P241: Use explosion-proof electrical/ventilating/lighting equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P264: Wash hands, forearms, and other exposed areas thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P307+P311: IF exposed: Call a POISON CENTER or doctor/physician.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P321: Specific treatment (see section 4).
- P331: Do NOT induce vomiting.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P370+P378: In case of fire: Use appropriate media to extinguish.
- P391: Collect spillage.

Storage:

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.

Disposal:

- P501: Dispose of contents/container according to local, regional, national, and international regulations.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: WARNING! Contains crystalline silica (quartz). Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.

POTENTIAL HEALTH EFFECTS

EYES: Mildly irritating to the eyes.

SKIN: Not likely to be absorbed in toxic amounts. Prolonged exposure may cause skin irritation. Avoid skin contact as much as possible.

SKIN ABSORPTION: None Expected.

INGESTION: This material may be harmful or fatal if swallowed in large quantities. Small amounts are not expected to produce adverse health effects.

INHALATION: Slight irritation to nose and throat with prolonged or repeated exposure.

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CARCINOGENICITY: IARC has concluded that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group I)."

ROUTES OF ENTRY: Eye and skin contact. Inhalation and ingestion are unlikely routes of entry.

IRRITANCY: Slight eye and skin irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
VM&P Naptha	3 - 10	8032-32-4
Methanol	1 - 5	67-56-1
Silica, Crystalline	< 0.5	14808-60-7

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of tempered water (at least 15-20 minutes) lifting upper and lower eye lids occasionally. Get immediate medical attention.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Small amounts are not expected to produce adverse health effects. Larger amounts should be recovered by aspiration. Get medical attention.

INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Slight irritation.

SKIN: Slight skin irritation.

SKIN ABSORPTION: None Expected.

INGESTION: None known, not likely route of entry.

INHALATION: Materials are low in volatility therefore not likely to pose a problem.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Class IIIB

GENERAL HAZARD: Combustible Liquid.

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical or foam.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide, Carbon Dioxide

EXPLOSION HAZARDS: Decomposition products may cause a health hazard.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear. After water evaporates, remaining material will burn.

SENSITIVE TO STATIC DISCHARGE: Not Applicable

SENSITIVITY TO IMPACT: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Fumes, smoke, carbon monoxide and carbon dioxide may form when heated to decomposition.

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6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. Only those persons who are adequately trained, authorized, and wearing the appropriate personal protective equipment (PPE) should participate in spill response and clean-up.

LARGE SPILL: Keep spectators away. Only those persons who are adequately trained, authorized and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up. Know and prepare for spill response before using or handling this product. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered and labeled containers for disposal. Use appropriate PPE. Place absorbent diking materials in covered containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe vapors. Avoid contact with body. Empty containers must not be washed and re-used for any purpose. Contact lens wearers must wear protective eye wear around chemical vapors and liquid. Wash hands thoroughly after handling. To prevent build-up of vapors, use adequate natural and/or mechanical ventilation (e.g. open all windows and doors to achieve cross ventilation).

HANDLING: Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

STORAGE: Keep container closed when not in use. Store in a dry, well ventilated area, out of the sun and away from ignition sources. Do not remove or deface label. Prevent water or moist air from entering container.

STORAGE TEMPERATURE: 15.5°C (60°F) Minimum to 35°C (95°F) Maximum

SHELF LIFE: 1 year from manufacture date

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
VM&P Naptha	TWA	NL [1]	NL [1]	300 ppm	1370 mg/m ³
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
Methanol	TWA	200 ppm	260 mg/m ³	200 ppm	262 mg/m ³
	STEL	NL [1]	NL [1]	250 ppm	327 mg/m ³
Silica, Crystalline	TWA	NL	0.1 mg/m ³	NL	0.05 mg/m ³
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
Footnotes: 1. NL = Not Listed					

ENGINEERING CONTROLS: Natural ventilation should be adequate under normal conditions.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields. A face shield may be necessary if spraying the product.

SKIN: Wear impervious gloves, if needed, to prevent repeated or prolonged skin contact.

RESPIRATORY: No respiratory protection required under normal conditions.

WORK HYGIENIC PRACTICES: Use good hygiene practices when handling this material. Wash hands thoroughly after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Latex

ODOR THRESHOLD: Not Determined

COLOR: Tan

pH: Not Determined

PERCENT VOLATILE: 35.4

Notes: by weight

FLASHPOINT AND METHOD: Not Applicable

FLAMMABLE LIMITS: Not Applicable

AUTOIGNITION TEMPERATURE: Not Applicable

VAPOR PRESSURE: Not Determined

VAPOR DENSITY: Not Determined

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BOILING POINT: $\geq 100^{\circ}\text{C}$ (212 $^{\circ}\text{F}$)
FREEZING POINT: Not Determined
MELTING POINT: Not Determined
POUR POINT: Not Determined
SOLUBILITY IN WATER: Soluble
EVAPORATION RATE: < 1.0 (n-Butyl Acetate=1)
DENSITY: 9.92 lbs/gal
PARTICLE SIZE: Not Determined
SPECIFIC GRAVITY: 1.19
VISCOSITY: Not Determined
MOLECULAR WEIGHT: Not Determined
(VOC): 182.400 gr/L EPA Method 24 VOC
Notes: Photochemically Reactive Only VOC: 129.0 gr/L
COEFF. OIL/WATER: Not Determined
OXIDIZING PROPERTIES: Not Determined
COMMENTS: 0.06 lb VHAP/lb Solid
 3.6% by weight HAP

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
STABILITY: Stable.
POLYMERIZATION: Product will not undergo polymerization.
CONDITIONS TO AVOID: None known.
POSSIBILITY OF HAZARDOUS REACTIONS: None Expected.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide may form when heated to decomposition.
INCOMPATIBLE MATERIALS: Strong acids or alkaline materials.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
VM&P Naptha	> 8000 mg/kg	> 4000 No data	3400 ppm (4-hr dose)
Methanol	No data	12800 mg/kg (rabbits)	64000 ppm (4-hr dose - rat)
Silica, Crystalline	No data	No data	No data

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CARCINOGENICITY

Chemical Name	NTP Status	IARC Status
Silica, Crystalline	1	1

IARC: IARC has concluded that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group I)."

Notes: This product contains silica quartz, a chemical known to the State of California to cause cancer.

IRRITATION: Slight eyes and skin irritation.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product contains components that will normally float on water. These components may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.

ECOTOXICOLOGICAL INFORMATION: Contains components that are potentially toxic to freshwater and saltwater ecosystems.

BIOACCUMULATION/ACCUMULATION: Contains components with the potential to bio-accumulate.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

MARINE POLLUTANT #1: None

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** No

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Methanol	1 - 5	67-56-1

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Methanol	1 - 5	5,000 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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Chemical Name	CAS
VM&P Naptha	8032-32-4
Methanol	67-56-1
Silica, Crystalline	14808-60-7

CLEAN AIR ACT

Chemical Name	Wt.%	CAS
Methanol	1 - 5	67-56-1

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Methanol	New Jersey Right to Know List Pennsylvania Right to Know List Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical
Silica, Crystalline	New Jersey Right to Know List Pennsylvania Right to Know List Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical

CALIFORNIA PROPOSITION 65: This product contains silica, quartz, a chemical known to the state of California to cause cancer.

Chemical Name	Wt.%	Listed
Silica, Crystalline	< 0.5	Cancer

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Toxic

16. OTHER INFORMATION

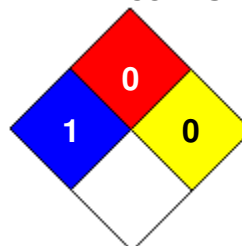
INFORMATION CONTACT: (781) 878-7015

REVISION SUMMARY: This MSDS replaces the 1/8/2014 MSDS. Revised: **Section 2:** .

HMIS RATING

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA CODES



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GENERAL STATEMENTS: Keep out of reach of children
For professional or industrial use only

MANUFACTURER DISCLAIMER: This document may be used to comply with OSHA's Hazardous Communication Standard, 29 CFR 1910.1200.

To the best of our knowledge, the information contained in this SDS is accurate. It is intended to assist the user in his/her evaluation of the product's hazards and safety precautions to be taken in its use. The data in this SDS relate only to the specific material designated herein. We do not assume liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

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