

W. R. GRACE
MATERIAL SAFETY DATA SHEET

Product Name: Adcor ES Adhesive

MSDS ID Number: M-85891

MSDS Date: 11/10/2011

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Adcor ES Adhesive
MSDS Number: M-85891
Cancelled MSDS Number: M-85803
MSDS Date: 11/10/2011
Chemical Family Name: See MSDS section 2 for a list of ingredients
Product Use: Waterstop Adhesive
Chemical Formula: Mixture-NA
CAS # (Chemical Abstracts Service Number): Mixture-NA

Manufactured by:

W.R.Grace & Co.-Conn.
62 Whittemore Avenue
Cambridge, MA 02140

Grace Canada, Inc.
294 Clements Road West
Ajax, Ontario L1S 3C6

In Case of Emergency Call:

In USA: (617) 876-1400 In Canada: (905) 683-8561

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Percent (max)
Calcium carbonate	001317-65-3	25-50
Distillates, petroleum, hydrotreated heavy naphthenic	064742-52-5	1-10
Tall oil, N-tallow-1,3-propylenediamine salt	061790-55-4	1-10
Isoprene polymer with 2-Methylpropene	009010-85-9	1-10
Kaolin	001332-58-7	25-50
Kerosene	008008-20-6	1-10
Naphtha, petroleum, hydrotreated heavy	064742-48-9	1-10
Polybutene	009003-29-6	10-25
Titanium dioxide	013463-67-7	1-10

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:

Caution!

Causes eye irritation.
Causes skin irritation.
Causes respiratory tract irritation.
Causes digestive tract irritation if ingested.

HMIS Rating:

Health: 2
Flammability: 1
Reactivity: 0
Personal Protective Equipment: B (See Section 8)

Potential Health Effects:

Inhalation: Causes respiratory tract irritation.

Eye Contact: Eye contact causes irritation.

Skin Contact: Skin contact causes irritation.

Pre-existing skin diseases may be aggravated.

Skin Absorption: Practically non-toxic if absorbed.

Ingestion: Oral toxicity is believed to be low.

If ingested causes irritation to the linings of the mouth, esophagus and stomach.

Effects include: drowsiness, nausea, fatigue, pulmonary edema (from aspiration into lungs from vomiting) CNS depression, diarrhea, headache.

SECTION 4 - FIRST AID MEASURES:

Skin Contact: In case of skin contact, clean fingernails and wash skin with soap and water. If residue remains, clean with waterless handcream or abrasive soap. Never use solvents.

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If discomfort or irritation persists, consult a physician.

Remove contaminated clothing and wash before reuse.

Eye Contact: Flush eyes with water for at least 15 minutes while holding eyelids open.

If discomfort or irritation persists, consult a physician.

Ingestion: Do not induce vomiting.

Never give anything by mouth to an unconscious person.

If discomfort or irritation persists, consult a physician.

Inhalation: If symptoms develop, get fresh air. If symptoms persist, consult a physician.

If breathing has stopped, give artificial respiration then oxygen if needed.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200° F

Flash Point Method: Tag Closed Cup

Lower Explosion Limit: Not Available

Upper Explosion Limit: Not Available

Auto-Ignition Temperature: Not Available

NFPA Rating:

Health: 1

Flammability: 1

Reactivity: 0

Extinguishing Media: In case of fire, use water spray, dry chemical, Carbon dioxide or foam.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to vapors or products of combustion exist. Water may be used to cool containers to prevent pressure build-up and possible auto-ignition or explosion. Avoid breathing hazardous vapors or products of combustion, keep upwind. Isolate area and keep unnecessary people away. Prevent run-off from fire control or dilution from entering streams or drinking water supplies.

No special procedures specific to this product.

Unusual Fire and Explosion Hazards: None unless noted below.

Removal of release paper may create a static electric discharge (sparks). Do not remove where sparks may ignite flammable vapors.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

Spills/Leaks: Use proper personal protective equipment. Do not flush to sewer or allow to enter waterways. Keep unnecessary people away.

SECTION 7 - HANDLING AND STORAGE

Precautionary Measures: Avoid contact with eyes, skin and clothing.

Do not take internally.

Practice good personal hygiene to avoid ingestion.

Use only with adequate ventilation.

Wash clothing before reuse.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

EXPOSURE GUIDELINES (US)

Ingredient	ACGIH TLV			OSHA PEL			
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	Substance Specific and Mineral Dust PELs
Calcium carbonate	-	-	-	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	-	-	-
Distillates, petroleum, hydrotreated heavy naphthenic	-	-	-	-	-	-	-

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Tall oil, N-tallow-1,3-propylenediamine salt	-	-	-	-	-	-	-
Isoprene polymer with 2-Methylpropene	-	-	-	-	-	-	-
Kaolin	2 mg/m3 TWA (respirable fraction, particulate matter containing no asbestos and < 1% crystallin	-	-	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	-	-	-
Kerosene	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol expos	-	-	-	-	-	-
Naphtha, petroleum, hydrotreated heavy	-	-	-	-	-	-	-
Polybutene	-	-	-	-	-	-	-
Titanium dioxide	10 mg/m3 TWA	-	-	15 mg/m3 TWA (total dust)	-	-	-

* Titanium Dioxide has been associated with lung disease (lung cancer). However due to the physical nature of this product (paste) exposures are not expected unless after product dries it abraded an air borne dust is created.

EXPOSURE GUIDELINES (CANADA)

Employers should consult local Provincial regulatory limits for exposure guidelines which may vary locally.

Engineering Controls:

Not generally required.

Personal Protective Equipment:

Respiratory Protection: Wear approved respiratory protection to prevent employee exposure from exceeding the limits specified in Section 2.

Skin Protection: The following glove materials are acceptable:

Eye Protection: At minimum, safety glasses with side shields should be worn where exposure to excessive dust or spray is likely.

Work/Hygienic Practices: Use good personal hygiene practices.

Avoid rubbing eyes while handling. Due to the physical nature of this product, ingestion is unlikely. Incidental ingestion of residue on hands can be avoided by using good personal hygiene practices. This product contains compounds subject to exposure guidelines and/or identified as carcinogens. (See Sections 8 and 11). However, due to the physical nature of this product, these compounds are unlikely to reach exposure limits unless airborne dust or spray mist is created.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Paste
Appearance/Odor:	Thixotropic Creamy Paste
Odor Threshold: (ppm)	Not Determined
pH:	Not Available
Vapor Pressure: (Mm Hg)	Unknown
Vapor Density: (Air = 1)	Unknown
Solubility In Water:	Unknown
Specific Gravity: (Water = 1)	1.65
Evaporation Rate: (Butyl Acetate = 1)	Slower than Ether
Boiling Point:	>180°F
Viscosity:	Unknown
Bulk Density: (Pounds/Cubic Foot)(Pcf)	Not Applicable
% Volatiles: (70°F)(21°C)	4-8

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SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions To Avoid: Strong oxidizers, Strong acids, Ammonium salts, flourine, maganese trioxide, oxygen diflouride and chlorine trifluoride.
Hazardous Polymerization: Will not polymerize.
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide, hydrocarbons, magnesium carbonate and lime.

SECTION 11 - TOXICOLOGICAL INFORMATION

Ingredient(No data unless listed.)

CAS Number

LD50 and LC50

Carcinogenicity:

Ingredient	IARC Group 1	IARC Group 2A	IARC Group 2B	NTP Known	NTP Suspect	OSHA
Calcium carbonate	No	No	No	No	No	No
Distillates, petroleum, hydrotreated heavy naphthenic	No	No	No	No	No	No
Tall oil, N-tallow-1,3-propylenediamine salt	No	No	No	No	No	No
Isoprene polymer with 2-Methylpropene	No	No	No	No	No	No
Kaolin	No	No	No	No	No	No
Kerosene	No	No	No	No	No	No
Naphtha, petroleum, hydrotreated heavy	No	No	No	No	No	No
Polybutene	No	No	No	No	No	No
Titanium dioxide	No	No	Yes	No	No	Yes

Mutagenicity: Not applicable.

Teratogenicity: Not applicable.

Reproductive Toxicity: Not applicable.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Fate: No data available for product.

Ecotoxicity: No data available for product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. According to EPA (40 CFR § 261), waste of this product is not defined as hazardous. Dispose of waste in accordance with all applicable regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name: Not Applicable

UN/NA Number: Not Applicable

Domestic Hazard Class: Nonhazardous

Surface Freight Classification: Not Applicable

Label/Placard Required: Not Applicable

SECTION 15 - REGULATORY INFORMATION

REGULATORY CHEMICAL LISTS:

CERCLA (Comprehensive Response Compensation and Liability Act):

(None present unless listed below)

Chemical Name

CAS #

Wt %

CERCLA RQ

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SARA Title III (Superfund Amendments and Reauthorization Act)

SARA Section 312/Tier I & II Hazard Categories:

Health Immediate (acute)	Yes
Health Delayed (chronic)	No
Flammable	No
Reactive	No
Pressure	No

302 Reportable Ingredients (Identification Threshold 1%):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>SARA 302 TPQ</u>
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313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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National Volatile Organic Compound Emission Standards For Adhesive and Sealants:

Volatile Organic Content: 220
(gr/L)

WHMIS Classification(s): D2 B

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

State Regulatory Information:

California Proposition 65: This product does not contain substances known to the state of California to cause cancer, birth defects or other reproductive harm.

Massachusetts Hazardous Substance List(Identification threshold 0.0001%(1ppm)):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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New Jersey Hazardous Substance List(Identification threshold (0.1%)):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Kerosene	008008-20-6	2.7

Pennsylvania Hazardous Substance List(Identification threshold 0.01%):

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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CHEMICAL INVENTORY STATUS:

All chemicals in this product are listed or exempt from listing in the following countries:

US	CANADA		EUROPE	AUSTRALIA	JAPAN	KOREA	PHILIPPINES
TSCA	DSL	NDSL	EINECS/ELINCS	AICS	ENCS	ECL	PICCS
Yes	No	Yes	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined

SECTION 16 - OTHER INFORMATION

Non-Hazardous Ingredient Disclosure:

<u>Chemical Name</u>	<u>CAS Number</u>
Prepared by:	EH&S Department
Approved by:	EH&S Department
Approved Date:	11/10/2011

Disclaimer:

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."