

Altro Adhesive for Recycled Rubber Flooring

Safety Data Sheet

Revision Date: 3/5/2021

SECTION 1: Identification and Company Details

Product Name: Altro Adhesive for Recycled Rubber Flooring

Recommended Use: Flooring Adhesive **Product Code:** Altro291750000

Manufacturer/Supplier: Altro

Address: 80 Industrial Way, Suite 1

Wilmington, MA

USA 01887 Emergency Phone: (USA) CHEM

(USA) CHEMTREC 1-800-424-9300 (24 hour response) (Canada) CANUTEC 1-613-996-6666 (24 hour response)

SECTION 2: Hazard(s) Identification

Classification of the chemical

Eye Irrit. 2A Cause serious eye irritation.

Resp. Sens. 1 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Skin Sens. 1 May cause allergic skin reaction.

STOT RE 2 May cause damage to organs through prolonged or repeated

exposure if inhaled.

Carc. 2 Suspected of causing cancer if inhaled, in contact with skin

and if swallowed.

Label Elements

Pictograms and Signal Words



Danger

Hazard Statements:

H317 May cause an allergic skin reaction.

H319 Cause serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H351.G Suspected of causing cancer if inhaled, in contact with skin

and if swallowed.

H373.A May cause damage to organs through prolonged or

repeated exposure if inhaled.

Precautionary Statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been

read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264.2 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out

of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/

face protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

P302+P352.A IF ON SKIN: Wash with plenty of water.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air

and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

P308+P313 If exposes or concerned: Get medical advice/attention.

P321.A Specific treatment (see supplementary instructions on this label)
P222+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P342+P311.A If experiencing respiratory symptoms: Call a POISON CENTER.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501.A Dispose of contents/container in accordance with applicable

regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of thehardened product may create a silica dust hazard).

SECTION 3: Composition/Information on Ingredients

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification.

List of components

Quantity	Name	Ident. Numb.	Classification
2.5-5%	Calcium Oxide	CAS: 1305-78-8	Skin Irrit. 2, H315; STOT SE 3, H335;
			Eye Dam. 1, H318
1-2.5%	Methylenediphenyl diisocyanate (MDI)	CAS: 26447-40-5	Carc. 2, H351; STOT RE 2, H373; Eye Irrit. 2A,
			H319; STOT SE 3, H335; Skin Irrit. 2, H315;
			Resp. Sens. 1, H334; Skin Sens. 1, H317;
			Acute Tox. 4, H332
1-2.5%	4, 4'-Methylendiphenyl diisocyante	CAS: 101-68-8	Acute Tox. 4, H332; Eye Irrit. 2A, H319;
			STOT SE 3, H335; Skin Irrit. 2, H315; Resp.
			Sens. 1, H334; Skin Sens. 1, H317; STOT RE
			2, H351
0.25-0.49%	Silica Sand	CAS: 14808-60-7	Carc. 1A, H350; STOT RE 1, H372
0.1-0.25%	4-Methylbenzenesulfonyl isocyanate	CAS: 4083-64-1	Eye Irrit. 2A, H319; STOT SE 3, H224; Skin
			Irrit. 2, H315; Resp. Sens. 1, H334

SECTION 4: First Aid Measures

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Obtain medical attention if skin related symptoms persist.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eye contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of ingestion:

Do not induce vomiting, get medical attention showing the SDS and the

hazard label.

In case of inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show them packing

or label.

Most important symptoms/effects, acute and delayed

Eye irritation Eye damages

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5:

Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Water

Carbon dioxise (CO2)

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A. Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water seperately. This must not

be discharged into drains.

Move undamaged containers from immediate hazard area if it can be

done safely.

SECTION 6:

Accidential Release Measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use approporate respiratory protection.

See protective measures under section 7 and 8.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

SECTION 7:

Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible

material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat to drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including and incompatibilities

Storage Temperature: N.A.

Incompatible Materials: None in particular.

Instructions as regards storage premises: Adequately ventilated premises.

SECTION 8:

Exposure Controls / Personal Protection

Control parameters

List of components with OEL value

Component	OEL Type	Ceiling	Long Term	Long Term	Short Term	Short Term	Note
			mg/m3	ppm	mg/m3	ppm	
Calcium oxide	OSHA			5			
	ACGIH			2			Upper respiratory
							tract irritation;
Methylenediphenyl	OSHA	С			0,2	0,02	
diisocyanate (MDI)							
4,4' 0 Methylenediphenyl	ACGIH			0,005		R	espiratory sensitization
diisocyanate						(isted under Methylene
							bisphenyl isocyanate
							(MDI);
	OSHA	С			0,2	0,02	
Silica Sand	ACGIH		0,025				A2- Suspected Human
							Carcinogen; lung
						cano	er; pulmonary fibrosis;

Appropriate engineering controls: N.A.

Individual protection measures

Eye Protection:

Use close fitting safety goggles, don't use eye lense.

Protection for Skin:

Use clothing that provides comprehensive protection to the skin; e.g. cotton

rubber, PVC or viton.

Protection for Hands:

Use protective gloves that provides comprehensive protection, e.g. PVC,

neoprene or rubber.

Respiratory Protection:

Use adequate protective respiratory equipment.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State: Liquid

Appearance and color: Paste beige

Odour: Characteristic

Odour threshold: N.A. pH: 9
Melting Point/Freezing Point: N.A.

Initial boiling point and boiling range: >100 °C (212 °F)

Flash Point: >100 °C (212 °F)

Evaporation Rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: 1.1-1.2 Vapour pressure: N.A.

Relative density: 1.45 g/cm3
Solubility in water: Soluble
Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

VOC 37 g per L

Other information

Substance groups relevant properties: N.A.

Miscibility: N.A. Fat Solubility: N.A. Conductivity: N.A.

SECTION 10: Stability and Reactivity

Reactivity

Stable under normal conditions

Chemical Stability

Data not available.

Possibility of hazardous reactions

None

Conditions to avoid

Stable under normal conditions

Incompatible materials

None in particular

Hazardous decomposition products

None

SECTION 11:

Toxicological Information

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Calcium oxide	a) acute toxicity	LD50 Oral Rat - 500 mg/kg
4,4'-Methylenediphenyl	a) acute toxicity	LC50 Inhalation Rat = 369 mg/m3 4h
diisocyanate		
Methylenediphenyl diisocyanate	a) acute toxicity	LD50 Skin Rabbit > 6200 mg/kg
(MDI)		LC50 Inhalation Rat = 369 mg/l 4h
		LD50 Oral Rat > 7400 mg/kg
Silica Sand	a) acute toxicity	LD50 Oral Rat = 500 mg/kg
4-Methylbenzenesulfonyl	a) acute toxicity	LC50 Inhalation Rat > 640 ppm 1h
isocyanate		

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

Substance(s) listed on the IARC Monographs:

4,4'-Methylenediphenyl diisocyanate	Group 3
Methylenediphenyl diisocyanate (MDI)	Group 3
Silica Sand	Group 1

Substance(s) listed as OSHA Carcinogen(s):

Silica Sand

Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand

Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

SECTION 12:

Ecological Information

Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

List of components with eco-toxicological properties

Quantity Component Ident. Numb. Ecotox Infos

2.5-5 % Calcium oxide CAS: 1305-78-8 a) Aquatic acute toxicity : LC50 Fish Cyprinus

carpio = 1070 mg/L 96h IUCLID

1-2.5 % Methylenediphenyl CAS: 26447-40-5 d) Terrestrial toxicity: LC50 Worm Eisenia

diisocyanate (MDI) foetida > 1000 mg/kg 14d IUCLID

d) Terrestrial toxicity: NOEC Worm Eisenia

foetida >= 1000 mg/kg 14d IUCLID

0.25-0.49% Silica Sand CAS: 14808-60-7 a) Aquatic acute toxicity: LC50 carp

> 10000,00000 mg/L 72h

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

SECTION 13:

Disposal Considerations

Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

SECTION 14:

Transport Information

UN number

ADR-UN number: N/A DOT-UN Number: N/A IATA-Un number: N/A IMDG-Un number: N/A

UN proper shipping name

ADR-Shipping Name: N/A

DOT-Proper Shipping Name: N/A

IATA-Technical name: N/A IMDG-Technical name: N/A

Transport hazard class(es)

ADR-Class: N/A

DOT-Hazard Class: N/A

IATA-Class: N/A IMDG-Class: N/A

Packing group

ADR-Packing Group: N/A DOT-Packing group: N/A IATA-Packing group: N/A IMDG-Packing group: N/A

Environmental hazards

Marine pollutant: No

Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT-Label(s): N/A DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR-Hazard identification number: N/A

ADR-Transport category (Tunnel restriction code): N/A

Air (IATA):

IATA-Passenger Aircraft: N/A IATA-Cargo Aircraft: N/A

IATA-Label: N/A
IATA-Subrisk: N/A
IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A IMDG-Stowage Note: N/A

IMDG-Subrisk: N/A

IMDG-Special Provisions: N/A

IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: N/A IMDG-MFAG: N/A

SECTION 15:

Regulatory Information

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

Calcium oxide is listed in TSCA Section 8b

Methylenediphenyl diisocyanate (MDI) is listed in TSCA Section 8b Section 8a - PAIR 4,4'-Methylenediphenyl diisocyanate is listed in TSCA Section 8b Section 8a - PAIR

Silica Sand is listed in TSCA Section 8b 4-Methylbenzenesulfonyl isocyanate is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

no substances listed

Section 304 - Hazardous substances:

4,4'-Methylenediphenyl diisocyanate

Section 313 - Toxic chemical list:

4,4'-Methylenediphenyl diisocyanate

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

4,4'-Methylenediphenyl diisocyanate Reportable quantity: 5000 pounds

CAA - Clean Air Act

CAA listed substances:

4,4'-Methylenediphenyl diisocyanate is listed in CAA Section 112(b) - HAP Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:

no substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

Silica Sand Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

Calcium oxide

Methylenediphenyl diisocyanate (MDI)

4,4'-Methylenediphenyl diisocyanate

Silica Sand

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Calcium oxide

4,4'-Methylenediphenyl diisocyanate

Silica Sand

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

Calcium oxide

Methylenediphenyl diisocyanate (MDI) 4,4'-Methylenediphenyl diisocyanate

Silica Sand

Canada - Federal regulations

DSL - Domestic Substances List

DSL Inventory:

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL Inventory:

no substances listed

NPRI - National Pollutant Release Inventory

Substances listed in NPRI:

no substances listed

SECTION 16:	Other Information
Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer .
H351	Suspected of causing cancer .
H351.G	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
H372	Causes damage to organs through prolonged or repeated exposure .
H373	May cause damage to organs through prolonged or repeated exposure.
H373.A	May cause damage to organs through prolonged or repeated exposure if inhaled.

Additional classification information





HMIS Health: 1 = Slight

HMIS Health - Is health hazard chronic?: Yes HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany. LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. WGK: German Water Hazard Class.

KSt: Explosion coefficient.

End of document.