
Safety Data Sheet

DURATHERM® ARCEL®

Section 1 - CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Product : DuraTherm Arcel Foam
Product Use : Used primarily for foamed cushioning and packaging.
Restrictions on use: All uses other than the identified.

Company Identification

MANUFACTURER

ACH Foam Technologies, Inc.
8700 Turnpike Drive, Suite 400
Westminster, CO 80031

For product information call: 855-597-4427
For chemical emergencies ONLY call CHEMTREC: 1-800-424-9300

Section 2 - HAZARDS IDENTIFICATION

Hazard Classification None.
Label Elements
Hazard Symbol None.
Signal Word None
Hazard Statement(s) None.

Other Hazards Keep away from heat/sparks/open flames.

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	Percent
Isopentane ¹	78-78-4	<3.5
D-Limonene	5989-27-5	<1.0
Crystalline Silica ²	14464-46-1	<0.3%

¹Flammable blowing agent that off-gases from product. Most of the isopentane off-gases prior to shipment.

²The crystalline silica is inextricably bound in the foam

Section 4 - FIRST AID MEASURES

First Aid

Inhalation: Remove patient from exposure. Obtain medical attention if ill effects occur.

Skin Contact: Wash skin with soap and water.

Eye Contact: Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. Obtain medical attention.

Ingestion: Ingestion of small quantities of this material under normal circumstances would not cause harmful effects.

Further Medical Treatment: Symptomatic treatment and supportive therapy as indicated.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing media: Water fog, foam, carbon dioxide, dry chemical.

Special firefighting protective equipment: Self-contained breathing apparatus with full face piece and protective clothing.

Unusual fire and explosion hazards: Burning product may emit dense black smoke. Dust generated by fabrication, e.g. sanding, may present a fire hazard and should be handled accordingly.

Section 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Sweep up and recover or shovel into a chemical waste container.

Section 7 - HANDLING AND STORAGE

STORAGE

Keep containers in a clean, cool and dry area away from heat sources. Natural ventilation is adequate. Storage Temperature: Ambient.

HANDLING

Process Hazards

All polymers degrade to some extent at their processing temperature, an effect which increases with increasing temperature. It is therefore impossible to be precise about which substances may be evolved. However, it is only the minor components which vary substantially. The major components are given in the "STABILITY AND REACTIVITY" section.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Ventilation:

Use ventilation adequate to maintain safe levels if overheating or dust

occurs during processing.

Respiratory protection: Use MSHA-NIOSH approved respirator for organic vapors, dusts and mists.

Protective clothing: Impervious gloves and apron.

Eye protection: Safety glasses with side shields.

Other protective equipment: Eyewash station in work area.

Special precautions or other comments: Follow procedures specified in the National Fire Protection Association Codes and Standards for handling combustible dusts. Maintain good housekeeping to avoid dust buildup.

Exposure Guidelines

Exposure Limits

PEL(OSHA): Particulates (Not Otherwise Classified) 15 mg/m³, 8 Hr. TWA, total dust 5 mg/m³, 8 Hr. TWA, respirable dust

TLV ACGIH): None Established

Other Applicable Exposure Limits

BUTANE, 2-METHYL

TWA (ACGIH): 1,000 ppm

Silica, cristobalite - respirable fraction

TWA (ACGIH): 0.025 mg/m³

Silica, cristobalite - respirable dust

TWA (OSHA): 0.05 mg/m³

Silica, cristobalite - respirable

TWA (OSHA): 1.2 millions of particles per cubic foot of air

TWA (OSHA): 0.05 mg/m³

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and color: White, rigid cellular foam blocks, boards and shapes.

Melting point: Softens at 175 to 220 deg. F.

Solubility in water: Insoluble

Odor: Very slight hydrocarbon.

Density: 0.6 to 3.0 pounds per cubic foot

Section 10 - STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Decomposition occurs at temperatures above 500 deg F (260 deg C).

Incompatibility: Oxidizing agents, organic solvents.

Hazardous decomposition products:

Combustion products: Carbon dioxide, carbon monoxide, and other organic

vapors.

Hazardous polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

General: No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on the properties of its components.

Ingestion: The acute oral LD50 in rat is probably above 15,000 mg/kg. Relative to other materials, this material is classified as "relatively harmless" by ingestion.

Eye contact: Irritation may develop following contact with human eyes. Dusts may cause mechanical irritation.

Skin contact: No irritation is likely to develop following contact with human skin.

Skin absorption: This product will probably not be absorbed through human skin.

Inhalation: No toxic effects are known to be associated with inhalation of dust from this material. Mechanical irritation may result from inhalation of dust from this material.

Other effects of overexposure: No other adverse clinical effects have been associated with exposures to this material.

Carcinogenicity Information

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
Silica, cristobalite - Overall evaluation: 1. Carcinogenic to humans

US National Toxicology Program (NTP) Report on Carcinogens
Silica, cristobalite - Known to be Human Carcinogen

US OSHA Specifically Regulated Substances
No carcinogenic components identified

Section 12 - ECOLOGICAL INFORMATION

Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product is predicted to have low mobility in soil.

Persistence and Degradation: The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

Toxicity: The product is predicted to have low toxicity to aquatic organisms.

Effect on Effluent Treatment: The product is anticipated to be poorly removed in effluent treatment.

Section 13 - DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Incinerate material in accordance with Federal, State/Provincial and Local requirements. Do not incinerate in closed containers.

Discarded product is not a RCRA hazardous waste.

Section 14 - TRANSPORTATION INFORMATION

DOT: Not regulated

Section 15 - REGULATORY INFORMATION

Not classified as hazardous to users or for transport. U.S. Federal Regulations

TSCA Inventory Status: Article but chemicals are all Reported/Included.

California Proposition 65

This product contains chemicals known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

Benzene, ethenyl-
Benzene, ethyl-

Section 16 - OTHER INFORMATION

HMIS Rating

Health : 0
Flammability : 2
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

The information herein is given in good faith but no warranty, expressed or implied, is made. The manufacturer assumes no responsibility for personal injury or property damage that may arise from use of this material. Vendees or users assume all risks associated with the use of this material.

DuraTherm is a registered Trademark of ACH Foam Technologies, Inc.
Arcel is a registered Trademark of NOVA Chemical Inc.