

TECHNICAL DATA SHEET

ISO 9001:2008 REGISTERED | GREENGUARD GOLD + GREENGUARD CERTIFIED

SIMALFA 350-IR

Adhesive

Simalfa 350-IR is a solvent-free dispersion roller adhesive with a water base used for the bonding of foams. The adhesive shows an excellent drying property and high flexibility. The adhesive is applied to one side by means of roller equipment and used with or without IR dryer.

Specifications

Composition:.....Dispersion acrylic resin and synthetic rubber in water

Appearance:.....Natural (white), and custom

Solid content:.....~ 54%

Density:.....~ 1.06 g/cm³

pH-value:.....~ 8.0 - 9.5

Viscosity:.....~ 700 - 1400 cP
Brookfield RV, Sp.3, 20 rpm

Heat resistance:.....na

Application quantity:.....~ 50...100 g/m²

Open time:.....~ 2 min.

Final adhesion:.....immediately

Shelf life:.....6 months at temperatures +5°C...+40°C, in unopened original packaging

Cleaning:.....Water

Frost sensitive:.....Temperatures below 0°C destroy the adhesive!

Features

- High solid content
- One side application
- Very high instant tack
- Very fast drying
- Immediate roll packing or vacuuming packaging
- Solvent-free
- Easy cleaning

Application

Foams: Polyurethane foam, Latex foam, polyether foam, etc.

Application Equipment

Counter-rotating rollers

Wetted parts: Stainless steel, high quality chrome or plastic

Delivery method

Free Flowing System (gravity), pressure, or pump

Processing

One side application by roller, heat drying at approx. 60°C, make sure product is NOT completely dry before assembly in order to achieve good adhesive transfer to the non-coated foam part and ultimately an acceptable final bond.

Join the parts within open time, apply pressure after assembly. The recommended compression ratio for the overall build thickness is 50% - 70%.

Available Container Sizes

Simalfa is available in 1000kg containers (250 gallons).

For additional container size information, visit the web at: <http://www.simalfa.com/techinfo/containerizes>

Surface Preparation

Surfaces must be clean, dry and dust free. Any petroleum based product such as oil or grease can prevent suitable bonding.

Precautionary Information

Please refer to the Safety Data Sheet (SDS) and Product Label for Health and Safety Information before using Simalfa.



For Additional Information

To request further information visit our website at www.simalfa.com, contact us via telephone at (973)423-9266, or mail us at SIMALFA, 15 Lincoln Street, Hawthorne NJ 07506 USA.

To arrange an on-site demonstration please contact us at (973)423-9266 immediately.

Important Notice

This information is accurate to the best of Alfa Adhesives, Inc.'s knowledge, or obtained from sources believed by Alfa Adhesives, Inc. to be accurate. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of this product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Alfa Adhesives, Inc. hereunder are given gratis and Alfa Adhesives, Inc. assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.

TDS Prepared by:

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{ SAFETY DATA SHEET }

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SIMALFA 350-IR

SECTION 1: Identification

Product identifier: SIMALFA 350-IR

Synonyms: None known

Product Code Number: 350-IR

SDS number: AA001-350-IR

Recommended use: Adhesives. Industrial Use. Flexible foam bonding. Manufacture of furniture. Vehicle construction.

Recommended restrictions: Uses other than those above.

Manufacturer Information:

Company name: Alfa Adhesives, Inc.

Company address: 15 Lincoln Street, Hawthorne NJ 07506 USA

Company telephone: 1.973.423.9266

Office hours (Mon – Fri): 6.00 am to 5:00 pm EST

Company contact name: Darren Gilmore, darren.gilmore@simalfa.com

Emergency phone number: 1.973.423.9266

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

Physical hazards: Not classified as a physical hazard under GHS criteria

Health hazards: Not classified as a health hazard under GHS criteria

Environmental hazards : Hazardous to the aquatic environment: Aquatic Chronic 3.
(Not adopted under OSHA GHS §1910.1200)

GHS signal word: Not applicable.

GHS hazard statement(s): H412 Harmful to aquatic life with long lasting effects

GHS Hazard symbol(s): Not applicable.

GHS Precautionary statement(s):

Prevention: P273 - Avoid release to the environment.

Response: No response precautionary statements required

Storage: No storage precautionary statements required

Disposal: P501 – Dispose of contents/container to a suitable treatment site in accordance with local, regional, international regulations.



Hazard(s) not otherwise Classified (HNOC):

Avoid inhalations of spray mists and/or spray vapors.

Ingredient(s) of unknown acute toxicity:

Not applicable.

SECTION 3: Composition/information on ingredients

Mixture:

Acrylate / CR (polychloroprenes, Chloroprene rubber).

Chemical Name	CAS#	Concentration (weight %)
Zinc oxide	1314-13-2	<1%

Note: The balance of the ingredients are not classified as hazardous, or are below the classification threshold under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

SECTION 4: First-aid measures

Description of necessary measures:

Inhalation:

Remove to fresh air. In case of irritation of the respiratory tract seek medical advice.

Skin contact:

After contact with skin, wash immediately with soap and water. In case of skin irritation, seek medical treatment.

Eye contact:

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

Ingestion:

Contact a physician/medical advice immediately.

Most important symptoms/effects, acute and delayed:

None currently known.

Indication of immediate medical attention and special treatment needed:

If any symptoms are observed, contact a physician and give them this SDS sheet.

SECTION 5: Fire-fighting measures

Suitable extinguishing media:

Water. Foam. Dry extinguishing powder.

Unsuitable extinguishing media:

None known.

Specific hazards:

Product is not combustible. In case of fire and/or explosion do not breathe fumes. Combustion products – Irritating gases and vapors. Special protective equipment and precautions for fire-fighters: Full protective clothing and NIOSH-approved self-contained breathing apparatus should be worn. Use water to cool exposed containers.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective equipment, such as gloves, goggles and protective clothing, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures. Change contaminated clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Do not empty into drains or the aquatic environment. Cover drains.

Methods and material for containment and cleaning up:

Remove mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clear contaminated area thoroughly. Retain contaminated washing water and dispose. Dispose of in accordance with all local, state, and federal regulations.

SECTION 7: Handling and storage

Precautions for safe handling:

The necessary precautions for handling chemicals should be followed. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Conditions for safe storage, including any incompatibles:

Store only in original container. Keep container tightly closed. The adhesive is sensitive to frost! Temperatures below 0°C will destroy the adhesive!

Storage conditions:

Store between 5°C to and 40°C

Shelf life:

6 months in unopened container.

SECTION 8: Exposure controls/personal protection

Control Parameters:

Occupational exposure limits:

Does not contain substances above concentration limits fixing an occupational exposure limit.

US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):		
Permissible Exposure Limits		
Substance	PEL-TWA (8 hour)	PEL-STEL (15 min)
Zinc oxide	5 mg/m ³	No data available

US ACGIH Threshold Limit Values		
Substance	TLV-TWA (8 hour)	TLV-STEL (15 min)
Zinc oxide	2 mg/m ³	10 mg/m ³

NIOSH Exposure Limits		
Substance	TWA	STEL
Zinc oxide	5 mg/m ³	10 mg/m ³

Appropriate engineering controls:

General room ventilation should be adequate. See also Section 7.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

Use suitable safety glasses. Eye protection should be compliant with OSHA regulations.

Skin and hand protection:

Use appropriate gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection:

Avoid inhalations of spray mists and/or spray vapors. Work in well ventilated areas, where risk assessment shows air-purifying respirators are appropriate, use type N95 (US) or type P2 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other:

Other protective clothing may be required depending on degree of exposure.

Thermal hazards:

No data available.

SECTION 9: Physical and chemical properties

Appearance

- Physical state: Liquid
- Color: Natural (white), and custom
- Odor: Characteristic.
- Odor threshold: No data available
- pH: 8.0 - 9.5
- Melting point/freezing point: Not applicable
- Initial boiling point and >100°C
- boiling range: Not applicable
- Flash point: Not applicable
- Evaporation rate: No data available
- Flammability (solid, gas): Non-flammable

Upper/lower flammability or explosive limits

Flammability limit – lower (%): Not applicable
 Flammability limit – upper (%): Not applicable
 Explosive limit – lower (%): Not applicable
 Explosive limit – upper (%): Not applicable
 Vapor pressure: ~ 130 hPa @ 50°C
 Vapor density: No data available
 Relative density (@50oC): 1.06 g/cm3
 Solubility: Miscible in water
 Partition coefficient (n-octanol/water): No data available
 Auto-ignition temperature: No data available
 Decomposition temperature: No data available
 Viscosity (dynamic): 700 - 1400 cP (Brookfield RV, Spindal 3/63, 20 rpm)

Other information:

Heat resistance ~ 80 – 90°C
 Solid content ~ 54%

SECTION 10: Stability and reactivity

Reactivity: Not chemically reactive.
 Chemical stability: Stable under normal ambient and anticipated conditions of use.
 Possibility of hazardous reactions: Not known.
 Conditions to avoid: Do not freeze.
 Incompatible materials: None known.
 Hazardous decomposition: Thermal decomposition can lead to the escape of irritating gases and vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: Not an expected route of entry.
 Ingestion: Not an expected route of entry.
 Skin: Not an expected route of entry.
 Eyes: Not an expected route of entry.

Symptoms related to the physical, chemical, and toxicological characteristics:

None expected.

Delayed and immediate effects and chronic effects from short or long-term exposure:

None expected.

Numerical measures of toxicity:

Ingredient Information

Substance	Test Type (species)	Value
Zinc Oxide	LD50 Oral (Rat)	7,950 mg/kg
	LD50 Dermal (Rabbit)	-
	LC50 Inhalation (Rat)	2,500 mg/m ³

Skin corrosion/irritation:

Frequently or prolonged contact with skin may cause dermal irritation.

Serious eye damage/eye irritation:

Not expected to cause serious eye damage/eye irritation.

Respiratory sensitization:

No information available on the mixture, however none of the components have been classified as a respiratory sensitizer (or are below the concentration threshold for classification).

Skin sensitization:

No information available on the mixture, however none of the components have been classified as a skin sensitizer (or are below the concentration threshold for classification).

Germ cell mutagenicity:

No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

Carcinogenicity:

No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

Reproductive toxicity:

No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

Specific target organ toxicity:**Single exposure:**

No information available on the mixture, however none of the components have been classified for STOT SE (or are below the concentration threshold for classification).

Specific target organ toxicity:**Repeat exposure:**

No information available on the mixture, however none of the components have been classified for STOT RE (or are below the concentration threshold for classification). Based on new information regarding a raw material that is being used in the formulation of this product, a clarification is under way as to whether a classification in a hazard class after repeated exposure (inhalation) is required.

Aspiration hazard:

No information available on the mixture, however none of the components have been classified for aspiration hazard (or are below the concentration threshold for classification).

Further information:

No data available.

SECTION 12: Ecological information**Ecotoxicity:****Product data:**

Product may not be released into water without pre-treatment.

Ingredient Information:

Substance	Test Type	Species	Value
Zinc Oxide	LD50	Oncorhynchus mykiss (rainbow trout)	1.1 mg/l - 96.0 h
	EC50	Daphnia magna (Water flea)	0.098 mg/l - 48 h
	EC/LC50	Algae	No data available

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other adverse effects:

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge. Observe regulations concerning local drainage.

SECTION 13: Disposal considerations

Appropriate method of disposal of substance or preparation

Dispose of contaminate product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures.

Contaminated packaging:

Completely emptied packing can be recycled.

SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)

Not regulated under DOT

IMDG

Not regulated under IMDG

IATA (Country variations may apply)

Not regulated under IATA

Environmental hazards

Marine pollutant: No.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No further relevant information available.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

PROTECT FROM FROST/FREEZING

SECTION 15: Regulatory Information

United States Federal Regulations:

This SDS complies with the OSHA, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA):

All substances in this product are listed, as required, or are exempt from the TSCA inventory.

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:

Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substance List, 40 CFR 302.4:

This product does not contain chemicals listed on CERCLA.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

None

SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

None

Section 311/312 (40 CFR 370):

- Acute Health Hazard:..... No
- Chronic Health Hazard:..... No
- Fire Hazard: No
- Pressure Hazard: No
- Reactivity Hazard:..... No

Section 313 Toxic Release Inventory (40 CFR 372):

Zinc oxide is listed

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts Right to Know:

None of the components are listed on the Massachusetts Right to Know List.

New Jersey Right to Know:

None of the components are listed on the New Jersey Right to Know list.

Pennsylvania Right to Know:

None of the components are listed on the Pennsylvania Right to Know List.

Canada WHMIS Hazard Class:

Not applicable

SECTION 16: Other Information**NFPA Hazard Classification**

Health: 1 | Flammability: 0 | Instability: 0 | Special Hazards: None

Revision Date: February 3, 2020

Disclaimer:

Workers using Simalfa should read and understand this SDS and be trained in the proper use of this material.

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