SAFETY DATA SHEET

SDS-00012 [Aluma Shield]

Section 1. Identification

GHS product identifier : SDS-00012 [Aluma Shield]

Product code : See Section 16

Other means of identification : Not available.

Product type : Solid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Not available.

Area of application : Consumer applications.

Manufacturer : ABB Installation Products Inc.
860 Ridge Lake Blvd.
Memphis, TN 38120, US

Telephone no.: 1-888-862-3289

Emergency telephone number (with hours of operation) : INFOTRAC – 24 Hours 1-800-535-5053
+1 352-323-3500 (Outside USA)

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise classified : None known.

United States

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

Ingredient name	Other names	%	Identifiers
Zinc powder - zinc dust (stabilized)	-	≥45 - ≤55	CAS: 7440-66-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use water spray, fog or foam. dry chemical powder

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Toxic fumes may be released.

Hazardous thermal decomposition products : Decomposition products may include the following materials: metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Zinc powder - zinc dust (stabilized)	None.

Biological exposure indices

None known.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Recommended: Nitrile rubber.or neoprene rubber (thickness 0.3 mm -0.6 mm)

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Solid. [Paste.]

Color : Gray. [Light]

Odor : Petroleum-like

Odor threshold : Not available.

pH : 7

Melting point/freezing point : Not available.

Boiling point or initial boiling point and boiling range : Not available.

Flash point : Closed cup: 300°C (572°F)

Evaporation rate : Not available.

Flammability : Not available.

Lower and upper explosion limit/flammability limit : Not applicable.

Vapor pressure : Not applicable.

Relative vapor density : Not applicable.

Relative density : Not available.

Density : Not available.

Solubility(ies) :

Media	Result
water	Insoluble

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

SADT : Not available.

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): >25 mm^2/s (>25 cSt)

Particle characteristics

Median particle size : Not available.

Other information

Physical/chemical properties comments : VOC content: < 0.1 g/l

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 10. Stability and reactivity

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Section 11. Toxicological information

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Conclusion/Summary [Product] : Not available.

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

United States

Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	
Zinc powder - zinc dust (stabilized)	**Chronic - NOEC - Fresh water** Fish - common carp - *Cyprinus carpio* Age: 13 months; Size: 10.5 cm; Weight: 27.8 g 2.6 µg/l [4 weeks]	Effect: Accumulation
	Acute - LC50 - Marine water Fish - Mudskipper - *Periophthalmus waltoni* - Adult 12.21 µg/l [96 hours]	Effect: Mortality
	Chronic - EC10 Daphnia - Water flea - *Daphnia magna* - Neonate Age: <24 hours 6.3 µg/l [21 days]	Effect: Reproduction OECD
	Acute - EC50 - Fresh water Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate Age: <24 hours 34 µg/l [48 hours]	Effect: Intoxication US EPA
	Acute - EC50 Algae - Green algae - *Raphidocelis subcapitata* 0.005 mg/l [72 hours]	Effect: Population
	Chronic - EC10 - Fresh water Algae - Green algae - *Raphidocelis subcapitata* - Exponential growth phase 27.3 µg/l [72 hours]	Effect: Population OECD

Conclusion/Summary [Product] : Not available.

Persistence and degradability

Conclusion/Summary [Product] : Not readily biodegradable.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/Water partition coefficient : Not available.

United States

Section 12. Ecological information

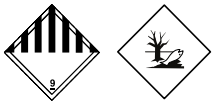
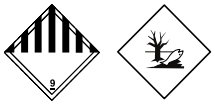
Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	UN3077	UN3077
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Powder)	Environmentally hazardous substance, solid, n.o.s. (Zinc Powder)
Transport hazard class(es)	-	9 	9 
Packing group	-	III	III
Environmental hazards	No.	Yes.	Yes.

Additional information

DOT Classification : **Reportable quantity** 2023.1 lbs / 918.47 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

IMDG : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Emergency schedules F-A, S-F
Special provisions 274, 335, 375, 966, 967, 969

IATA : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
Quantity limitation Passenger and Cargo Aircraft: 400 kg. Packaging instructions: 956. Cargo Aircraft Only: 400 kg. Packaging instructions: 956. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y956.
Special provisions A97, A158, A179, A197, A215

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 14. Transport information

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): All components are active or exempted.

Clean Water Act (CWA) 307: Zinc powder - zinc dust (stabilized); cadmium oxide

TSCA 12(b) - Chemical export notification

	One time notification		Annual notification		
Name	**4**	**5**	**5(f)**	**6**	**7**
zinc	Not listed	Not listed	Not listed	Listed	Not listed

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	**%**	**EHS**	**(lbs)**	**(gallons)**	**(lbs)**	**(gallons)**
cadmium oxide	≤0.1	Yes.	100 / 10000	-	100	-

SARA 304 RQ : 555555.6 lbs / 252222.2 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

SARA 313

	Product name	CAS number	%
Form R-Reporting requirements	Zinc powder - zinc dust (stabilized)	7440-66-6	≥45 - ≤55
Supplier notification	Zinc powder - zinc dust (stabilized)	7440-66-6	≥45 - ≤55

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: ALUMINUM OXIDE; ZINC

United States

Section 15. Regulatory information

New York : The following components are listed: Zinc

New Jersey : The following components are listed: ALUMINUM OXIDE; ZINC

Pennsylvania : The following components are listed: ALUMINUM OXIDE; ZINC COMPOUNDS

California Prop. 65

⚠ **WARNING**: This product can expose you to Cadmium and cadmium compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Cadmium and cadmium compounds	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

Other special considerations : **Product codes** :
21059, 3LN07, 60141, 60273NT, ATL10-38, AP8 3LN08, 60142, 60274, ATL10-38-B1-6, M-53, 3LN09, 60144, 60275, ATL1-38-B1-6, 1XPZ5, 3LN10, 60147, 60275NT, ATL20-12, 1XPZ6, 3LN11, 60148, 60276, ATL20-12-B1, 1XPZ7, 3LN12, 60150, 60278, ATL20-38, 1XPZ8, 3LN13, 60151, 60278N, ATL20-38-B1-6, 1XPZ9, 60096, 60154, 60278NT, ATL2-14, 1XRA1, 60097, 60156, 60284, ATL2-38, 1XRA2, 60099, 60157, 60500-TB, ATL2-38-B1, 1XRA3, 60101-TB, 60160, 60501-TB, ATL2-38-B1-6, 1XRA4, 60102-TB, 60162, 60507-TB, ATL2-38-B2, 1XRA5, 60103-TB, 60165, 60512, ATL250-12, 1XRA6, 60104-TB, 60166, 60516, ATL2502, 1XRA7, 60106-TB, 60168, 60522-TB, ATL2-516, 1XRA8, 60107-TB, 60171, 60530-TB, ATL30-12, 3LM77, 60108-TB, 60171NT, 60536, ATL30-38, 3LM78, 60109-TB, 60171UF, 60542, ATL30-38-B1-6, 3LM79, 60112-TB, 60172, 60548, ATL350-12, 3LM80, 60113-TB, 60174, 60554, ATL3502, 3LM81, 60114-TB, 60174NT08, 60560, ATL4-14, 3LM82, 60116-TB, 60176, 60565, ATL4-38, 3LM83, 60117-TB, 60178, 60568, ATL4-516-B1-6, 3LM84 60118-TB, 60230, 60571, ATL5002, 3LM85, 60120, 60236, 60574, ATL6002, 3LM86, 60120BT, 60238, 60576, ATL6-10-B1-6, 3LM87, 60122, 60242, 60578, ATL6-14, 3LM88, 60123, 60244, 60584, ATL7502, 3LM89, 60124, 60248, 6MFT9, ATL8-10-B1-6, 3LM90, 60126, 60250, ASP1, 60277, 3LM91, 60128, 60254, ASP10, 3LM92, 60129, 60256, ASP2, 3LM93, 60130, 60262, ASP20, 3LM94, 60132, 60265, ASP250, 3LM95, 60134, 60267, ASP30, 3LM96, 60135, 60269, ASP300, 3LM97, 60136, 60271, ASP4, 3LN04, 60136G, 60273, ASP40, 3LN05, 60138, 60273BT, ASP6, 3LN06, 60140, 60273N, ASP8.

Hazardous Material Information System (U.S.A.)



United States

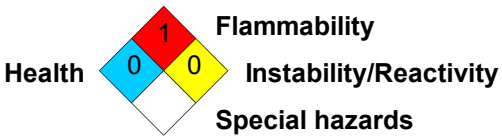
Section 16. Other information

Flammability	1
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Date of issue/Date of revision : 12/05/2025

Date of previous issue : No previous validation

Version : 1

Prepared by : Sphera Solutions

Key to abbreviations : ATE = Acute Toxicity EstimateBCF = Bioconcentration FactorGHS = Globally Harmonized System of Classification and Labelling of ChemicalsIATA = International Air Transport AssociationIBC = Intermediate Bulk ContainerIMDG = International Maritime Dangerous GoodsIMO = International Maritime OrganizationLogPow = logarithm of the octanol/water partition coefficientMARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)N/A = Not availableSGG = Segregation GroupTDG = Transportation of Dangerous GoodsUN = United Nations

References : HCS (U.S.A.) - Hazard Communication StandardInternational transport regulations

Indicates information that has changed from previously issued version.

Notice to reader

ABB Installation Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.