AA-1203 Thermal Grease

Prepared in accordance with the UN Globally Harmonized System (GHS)

AT A GLANCE

GHS CLASSIFICATION	SIGNAL WORD	TRANSPORT	KEY PRECAUTION
Not classified	**None**	**Not regulated**	**Keep dry: may generate hydrogen gas with water, acids or bases**

AceAdhesive encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

01 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	:	AA-1203 Thermal Grease
Grade	:	AA-1203

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

Identified uses	:	Thermal interface material (heat sink compound) for electrical and electronic equipment.
Uses advised against	:	Not intended for consumer use.

1.3 Details of the supplier of the safety data sheet

Company	:	ACE ADHESIVES (AceAdhesive)
Address	:	GF-7, Design Arch Society Commercial Block, Ground Floor, Block H, UPSIDC Site C, Surajpur, Greater Noida, Uttar Pradesh 201306, India
Customer Information Number	:	+91 91459 90997
E-mail address	:	admin@aceadhesive.com
Website	:	www.aceadhesive.com

1.4 Emergency telephone number

Emergency Contact	:	+91 91459 90997 (Monday to Saturday, 10:00 to 19:00 IST)

02 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

2.2 Label elements

Hazard pictograms	:	None
Signal word	:	None
Hazard statements	:	None
Precautionary statements	:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. P403 Store in a well-ventilated place.

2.3 Other hazards

May generate flammable hydrogen gas. Avoid contact with water, alcohols, acidic, basic, or oxidizing materials.
This product contains no substances assessed to be PBT or vPvB at levels of 0.1% or higher.

03 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature	:	Silicone compound

3.2 Mixtures

This product is a mixture. It contains no substances classified as hazardous at reportable levels. Component with a workplace exposure limit:

CAS-No. / EC-No.	Concentration	Component	Classification (GHS)
1344-28-1 215-691-6	>= 82.0 - <= 92.0 %	Aluminium oxide	Not classified

For the full text of the H-Statements mentioned in this Section, see Section 16.

04 FIRST AID MEASURES

4.1 Description of first aid measures

General advice : First aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation : Move person to fresh air; if effects occur, consult a physician.

Skin contact : Wash off with plenty of water.

Eye contact : Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion : No emergency medical treatment necessary.

4.2 Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicological information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

05 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO_2)
Dry chemical

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon oxides
Silicon oxides
Metal oxides
Formaldehyde

Unusual Fire and Explosion Hazards : Exposure to combustion products may be a hazard to health. Applying foam will release significant amounts of hydrogen gas that can be trapped under the foam blanket.

5.3 Advice for firefighters

Fire Fighting Procedures	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from the fire area if it is safe to do so. Evacuate the area. Collect contaminated fire-extinguishing water separately; it must not be discharged into drains.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

06 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Follow safe handling advice and personal protective equipment recommendations.

6.2 Environmental precautions

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Wipe up or scrape up and contain for salvage or disposal. For large spills, provide dyking or other appropriate containment to keep material from spreading. Clean up remaining material with a suitable absorbent. Spilled material can make surfaces slippery. Local or national regulations may apply to releases and disposal of this material; see Sections 13 and 15. Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container; the vent must prevent the ingress of water.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

07 HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment. Keep away from water. Protect from moisture.

7.2 Conditions for safe storage, including any incompatibilities

Keep in properly labelled containers. Keep container tightly closed in a dry, cool place away from direct sunlight. A slight oil separation during storage is normal; stir before use. Product may evolve minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapours well below flammability limits and exposure guidelines. Clogged container vents may increase pressure build up. Store in a closed container. Do not repackage.

Do not store with the following product types	:	Strong oxidizing agents
Unsuitable materials for containers	:	None known.

7.3 Specific end use(s)

See the technical data sheet (TDS) on this product for further information.

08 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value/Notation
Aluminium oxide	ACGIH	TWA	1 mg/m³ Respirable particulate matter (as Aluminium)

8.2 Exposure controls

Engineering controls	:	Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection	:	Use safety glasses (with side shields).
Hand protection	:	Use chemical-resistant gloves classified under standard EN 374, e.g. nitrile rubber, neoprene or butyl rubber, for prolonged or frequently repeated contact.
Other protection	:	Wear clean, body-covering clothing.
Respiratory protection	:	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects are experienced. Use an approved air-purifying respirator with an organic vapour cartridge and particulate pre-filter (type AP2, EN 14387).

Environmental exposure controls

See Section 7: Handling and Storage and Section 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

09 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	Paste
Color	:	Grey (regular) / White (on demand)
Odor	:	Slight
Odor Threshold	:	No data available
pH	:	Not applicable
Melting point/range	:	Not applicable
Freezing point	:	Not applicable
Boiling point (760 mmHg)	:	Not applicable
Flash point	:	closed cup > 100 °C
Evaporation Rate (Butyl Acetate = 1)	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Vapor Pressure	:	Not applicable
Relative Vapor Density (air = 1)	:	No data available
Relative Density (water = 1)	:	2.8 ± 0.1
Water solubility	:	Insoluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Dynamic Viscosity	:	Cone penetration 300 ± 10 (1/10 mm)
Kinematic Viscosity	:	No data available
Explosive properties	:	Not explosive

Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Thermal conductivity	:	3.0 ± 0.2 W/m·K
Molecular weight	:	No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10 STABILITY AND REACTIVITY

10.1 Reactivity	:	Not classified as a reactivity hazard.
10.2 Chemical stability	:	Stable under normal conditions.
10.3 Possibility of hazardous reactions	:	Can react with strong oxidizing agents. Product may evolve flammable hydrogen gas on contact with water, alcohols, acidic or basic materials, and many metals or metallic compounds, and can form explosive mixtures in air.
10.4 Conditions to avoid	:	Exposure to moisture.
10.5 Incompatible materials	:	Avoid contact with oxidizing materials.
10.6 Hazardous decomposition products	:	Decomposition products can include and are not limited to: Formaldehyde.

11 TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

11.1 Information on toxicological effects

Acute oral toxicity	:	As product: The oral LD50 has not been determined.
Acute dermal toxicity	:	As product: The dermal LD50 has not been determined.
Acute inhalation toxicity	:	As product: The LC50 has not been determined.
Skin corrosion/irritation	:	Not classified based on available information.
Serious eye damage/eye irritation	:	Not classified based on available information.
Sensitization	:	Not classified based on available information.
Specific Target Organ Systemic Toxicity (Single Exposure)	:	Not classified based on available information.
Specific Target Organ Systemic Toxicity (Repeated Exposure)	:	Not classified based on available information.
Carcinogenicity	:	Not classified based on available information.
Reproductive toxicity	:	Not classified based on available information.
Mutagenicity	:	Not classified based on available information.
Aspiration Hazard	:	Not classified based on available information.

12 ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

12.1 Toxicity	:	Product test data not available.
12.2 Persistence and degradability	:	Product test data not available.
12.3 Bioaccumulative potential	:	Product test data not available.
12.4 Mobility in soil	:	Product test data not available.
12.5 Results of PBT and vPvB assessment	:	This product contains no substances assessed to be PBT or vPvB at levels of 0.1% or higher.
12.6 Other adverse effects	:	Product test data not available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with all national, state and local laws and regulations. In India, dispose of waste through a facility authorised by the State Pollution Control Board.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14 TRANSPORT INFORMATION

Classification for ROAD and Rail transport (India / ADR/RID)

14.1 UN number : Not applicable

14.2 UN proper shipping name : Not regulated for transport

14.3 Transport hazard class(es) : Not applicable

14.4 Packing group : Not applicable

14.5 Environmental hazards : Not considered environmentally hazardous based on available data.

14.6 Special precautions for user : No data available.

Classification for SEA transport (IMO-IMDG)

14.1 UN number : Not applicable

14.2 UN proper shipping name : Not regulated for transport

14.3 Transport hazard class(es) : Not applicable

14.4 Packing group : Not applicable

14.5 Environmental hazards : Not considered as marine pollutant based on available data.

14.6 Special precautions for user : No data available.

14.7 Transport in bulk according to IMO instruments : Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO)

14.1 UN number : Not applicable

14.2 UN proper shipping name : Not regulated for transport

14.3 Transport hazard class(es) : Not applicable

14.4 Packing group : Not applicable

14.5 Environmental hazards : Not applicable

14.6 Special precautions for user : VENTED PACKAGES ARE FORBIDDEN FOR AIR TRANSPORT.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organisation to follow all applicable laws, regulations and rules relating to the transportation of the material.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

GHS classification : Not a hazardous substance or mixture.

India : Not classified as hazardous; no specific provisions apply.

EU RoHS Directive 2011/65/EU, as amended by (EU) 2015/863 : Compliant.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

16 OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

Not applicable.

Classification and procedure used to derive the classification for mixtures

This product is not classified as hazardous according to GHS criteria.

Revision

Identification Number	:	ACE-SDS-1203
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Version	:	1.0
Date of first issue	:	2025/10

Legend

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
TWA / STEL	:	8-hour time weighted average / Short-term exposure limit
GHS	:	Globally Harmonized System of Classification and Labelling of Chemicals
PBT / vPvB	:	Persistent, Bioaccumulative and Toxic substance / Very Persistent and Very Bioaccumulative substance
ADR / RID	:	European agreements on the international carriage of dangerous goods by road / rail
IMDG / IATA	:	International Maritime Dangerous Goods Code / International Air Transport Association
TDS	:	Technical Data Sheet

Information Source and References

This SDS is prepared by AceAdhesive Product Regulatory and Quality from information supplied by internal references within the company and from information on the raw materials used.

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