

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.

Reviewed on 07/17/2015

1 Identification

Product identifier

· Trade name: 1200 and related products

Valid for the following products: MICROTHERM PANEL-1200

MICROTHERM (SEMI-)OVERSTICHED-1200 MICROTHERM (SEMI-)QUILTED-1200

PROMALIGHT-1200 STEELFLEX-1200

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Promat Inc.

1731 Fred Lawson Drive Maryville, TN 37801 Phone: 888-681-0155 Fax: 865-681-0016 E-mail: Sales@promat.us Web site: Promat.us

Emergency telephone number: 877-681-0511

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)



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(Contd. of page 1)

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 1 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 1 Fire = 0 Reactivity = 0

3 Composition/information on ingredients

14940-68-2 Zircon 25-50%

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous Components:				
1344-28-1	aluminium oxide	◆ STOT SE 3, H335	40-60%	
1344-28-1	aluminum oxide fibre	◆ STOT SE 3, H335	15-35%	
68611-44-9	Silane, dichlorodimethyl-, reaction product with silica	◆ STOT SE 3, H335	2-12%	

· Additional information:

MICROTHERM 1200 insulation products contain no respirable fibres (see Section 11) and therefore fall outside the scope of European Community Directive Amendment 97/69/EC.

MICROTHERM 1200 insulation products may be supplied encapsulated in covering materials such as woven glass cloth, non-woven polyester cloth, PE foil, aluminum foil and mica sheet.

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Remove affected person to fresh air. Seek medical attention if symptoms persist.
- · After skin contact:

Rinse affected areas with water, taking care not to scratch or rub. Seek medical attention if irritation persists.

· After eye contact:

Flush immediately with copious amounts of water. Do not rub eyes. Seek medical attention if irritation persisits.

- · After swallowing: In the event of suspected problems, seek medical attention.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. on page 3)





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(Contd. of page 2)

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Water, carbon dioxide, foam or dry extinguishing media.
- · Special hazards arising from the substance or mixture

Plastic encapsulations used to contain MICROTHERM 1200 insulation products will burn if exposed to flames.

- Advice for firefighters
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Additional information

MICROTHERM 1200 insulation products are classified as "non-combustible" by tests to BS 476 Part 4: 1970, Fire Tests on Building Materials and Structures. Non-combustibility test for materials (equivalent to ISO/R 1182).

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

In the event of high dust levels, use approved respiratory protective equipment (see Section 8).

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Powder and fragments should be cleaned up using a method that will avoid the generation of dust in the workplace atmosphere. The use of a vacuum cleaner fitted with an exhaust air filter fine enough to trap the dust is recommended.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling

The handling of MICROTHERM 1200 insulation products, especially in the encapsulated form, is unlikely to generate significant quantities of airborne dust. Dust may be generated, however, if MICROTHERM 1200 insulation products have to be machined, cut to size, broken up or removed from equipment. In such circumstances, if adequate control of personal exposure cannot be achieved by engineering measures alone, it will be necessary to wear approved respiratory protective equipment with the appropriate nominal protection factor and eye protection.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

MICROTHERM 1200 insulation products should be stored in dry conditions.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.



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(Contd. of page 3)

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

oona or pa				
· Components with occupational exposure limits:				
1344-28-1 aluminium oxide				
PEL	Long-term value: 15*; 15** mg/m³ *Total dust; ** Respirable fraction			
REL	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.			
TLV	Long-term value: 1* mg/m³ as Al; *as respirable fraction			
1344-28-1 aluminum oxide fibre				
PEL	Long-term value: 15*; 15** mg/m³ *Total dust; ** Respirable fraction			
REL	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.			
TLV	Long-term value: 1* mg/m³ as AI; *as respirable fraction			
68611-44-9 Silane, dichlorodimethyl-, reaction product with silica				
ACGIH	Short-term value: 3 mg/m³ Long-term value: 10 mg/m³			
OSHA PEL	Short-term value: 6 mg/m³			

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:

Where sufficient control of exposure to airborne dust cannot be achieved by engineering measures alone, or if irritation problems arise, the following protective equipment may be necessary:

· Breathing equipment:

NIOSH/MSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

Protection of hands:

Protective gloves and protective skin cream



- · Eye protection: Tightly sealed goggles
- · Body protection: Protective work clothing



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(Contd. of page 4)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid (may be encapsulated in a covering material)

Color: White

Odor: CharacteristicOdor threshold: Not determined.

• **pH-value:** 4-5 (suspensions; 40 g/l water)

· Change in condition

Melting point/Melting range: 2030 C (alox)
Boiling point/Boiling range: Not determined.

Flash point: Not applicable.

Flammability (solid, gaseous): Not determined.

· Ignition temperature:

Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:
Upper:
Not determined.
Not determined.

Vapor pressure:
Not applicable.

Density:
Relative density
Vapour density
Vapour density
Evaporation rate
Not determined.
Not applicable.
Not applicable.

· Solubility in / Miscibility with

Water: Not determined.Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Product is stable under normal conditions.



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(Contd. of page 5)

· Thermal decomposition / conditions to be avoided:

COVERING: The organic components applied to the glass cloth, and some coatings and adhesives used with MICROTHERM 1200 insulation products could decompose when heated to temperatures greater thean 1500 degrees Celsius.

CORE INSULATION: MICROTHERM 1200 insulation products are thermally stable up to their recommended maximum operating temperature.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.
- Additional information:

WHEN HANDLING INSULATION WHICH MAY HAVE BEEN SUBJECTED TO TEMPERATURES IN EXCESS OF THE MAXIMUM RECOMMENDED OPERATING TEMPERATURES CARE MUST BE TAKEN TO ENSURE THAT DUST LEVELS ARE MAINTAINED AS FAR BELOW THE APPROPRIATE CONTROL LIMIT AS IS REASONABLY PRACTICAL.

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Other information (about experimental toxicology):

Note: with filament diameters in the range 6-11 microns, MICROTHERM 1200 insulation products contain no respirable fibres as defined vy the WHO (World Health Organization).

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

İrritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the Ingredients are listed..

· NTP (National Toxicology Program)

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

- Toxicity
- · Aquatic toxicity: No further relevant information available.

(Contd. on page 7)



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(Contd. of page 6)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Waste MICROTHERM 1200 insulation products (even after use above their recommended operating temperatures) are not classified as hazardous waste, and may generally be disposed of at a normal landfill site that has been licensed for the disposal of industrial waste.

Where MICROTHERM 1200 insulation waste has been contaminated by products that may be classified as hazardous, expert guidance should be sought.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· Transport hazard class(es)

· DOT, ADR, ADN, IMDG, IATA

· Class Non-Regulated Material

· Packing group

· **DOT, ADR, IMDG, IATA** Non-Regulated Material

· Environmental hazards:

· Marine pollutant: No

Special precautions for user Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation":

(Contd. on page 8)



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(Contd. of page 7)

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- . Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

1344-28-1 aluminium oxide

1344-28-1 aluminum oxide fibre

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- · Carcinogenic categories
- EPA (Environmental Protection Agency)

None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH)

1344-28-1 aluminium oxide A4
1344-28-1 aluminum oxide fibre A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Warning



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(Contd. of page 8)

· Hazard statements

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· State Right to Know				
1344-28-1	aluminium oxide	♦ STOT SE 3, H335	50-60%	
14940-68-2	Zircon		30-40%	
1344-28-1	aluminum oxide fibre	◆ STOT SE 3, H335	2-20%	
68611-44-9	Silane, dichlorodimethyl-, reaction product with silica	♦ STOT SE 3, H335	0-10%	
All ingredients are listed.				

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision 07/17/2015

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3