

SAFETY DATA SHEET



Thermoseal Inc.
2350 Campbell Rd
Sidney, OH 45365 USA

Date of Issue: June 1, 2015
Page 1 of 5

1. Material/Preparation and Company Name

1.1 Description of the product:

1.3 Information on the manufacturer:

Trade name: **KLINGERSIL® C-4201**

Thermoseal Inc.
2350 Campbell Rd.
Sidney, OH 45365

1.2 Application of the product:

Gasket material for application in bolted flanged joints

Contact: Quality Manager – Paul Francis
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2. Hazard Identification

Identification of danger: In its form as supplied no hazards known.

3. Composition/Information on Components

3.1 Chemical Characteristics

Material contents Ingredients	CAS#	% By Weight	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
Wollastonite, Calcium Silicate	13983-17-0	40-50	15	10
Kaolin	1332-58-7	15-20	5	2
Synthetic fiber/Cellulose	9004-34-6	<5	15	10
Aramid Fiber	26125-61-1	<5	NA	NA
Carbon Black	1333-86-4	<1	3.5	3
Magnesium Oxide	1309-48-4	<0.5	15	10

Danger classification not necessary as no dangers are known based on the level of knowledge at the present time.

4. First Aid Measures

After inhaling: Not applicable (accordingly see point 6)

After skin contact: Not applicable (accordingly see point 6)

After eye contact: Remove small solid particles and rinse with water approx. 10 min.
If provoking continues, a doctor must be consulted.

After swallowing: No measures necessarily.

Note for the doctor: Not applicable

SAFETY DATA SHEET	Page 2 of 5
Thermoseal Inc Sidney, OH USA	Product Trade Name: KLINGERSIL® C-4201

5. Firefighting Measures

Suitable extinguishing agent: Water, carbon dioxide, powder extinguishers, foam extinguishers.

Extinguishing agents which are unsuitable for safety reasons: Unknown.

Special dangers through the material or the preparation itself, its combustion products or resulting gases: In the case of combustion, the same gases (see below) are produced as with burning rubber including heavy carbon black formation.

The following can be produced in case of fire: Carbon monoxide, carbon dioxide, sulphur oxides and nitrous gases (NO_x), irritating/caustic, combustible as well as poisonous carbonization gases.

Special protective equipment: When Firefighting, breathing apparatus and eye protection have to be worn against dust and fumes and burning rubber.

Additional note: There is the danger of the rubber re-igniting. For this reason, additional cooling after extinguishing is necessary.

6. Accidental Release Measures

Precautionary measures related to persons: Avoid dust formation

Environmental protection measures: No dangers known.

Procedure for cleaning: Use of approved vacuum cleaners with fine dust filters.

6.1 Measures in Case of Unintentional exceeding Dust Release

General Note: In case of improper use and use which is not in compliance with stipulations e.g. grinding might cause an exceeding amount of fine dust. In this case proper exhausting and filtering is to apply protective respiratory equipment meeting MSHA/NIOSH standards.

After Inhaling: Bring to fresh air.

After skin contact: Washing with soap.

7. Handling and Storage

7.1 Handling

Notes on safe handling: Measures for the avoidance of strong dust formation.

Notes on protection against fire and explosion: Material is flammable only through effects of an external flame.

7.2 Storage

Requirements on storage rooms and containers: Dry storage rooms. Material should not be stored in the vicinity of the heating as it can become brittle and no longer usable in accordance with stipulations.

Notes on storing together with other products: No restrictions or dangers known.

Thermoseal Inc
Sidney, OH USA

Product Trade Name:
KLINGERSIL® C-4201

8. Exposure Controls/Personal Protection

8.1 Exposure References

See point 7; no further measures necessarily

8.2 Personal Protective Equipment for processing

Breathing protection: in case of high fine dust concentrations use personal protective equipment (e.g. fine –dust respirator acc. MSHA/NIOSH standards).

Hand protection: Gloves

Body protection: Overall

9. Physical and Chemical Characteristics

9.1. Appearance

Form: firm sheets

Color: Surface: white or black

Odor: gummy

Cut edge: grey

9.2 Safety-related data

Value/Range

Change in state

not known

Boiling point/Boiling range:

n.a.

Melting point/Melting range:

n.a.

Decomposition of elastomer:

over 300°C

Flash point:

not known

pH-Wert:

n.a.

Ignitability of solid material:

not known

Ignition temperature

not known

Self-igniting solid material:

Not self-igniting

Fire-promoting properties:

self-burning

Danger of explosion

None

Explosion limits:

n.a.

Vapour pressure:

n.a.

Density:

1.85 g/cm³ (at 25°C)

Solubility in water/grease:

insoluble

10. Stability and Reactivity

Conditions to be avoided: temperatures >450°C

Materials to be avoided: Not known

Dangerous decomposition products: hydrogen cyanide

The following can result in case of fire: Carbon monoxide, carbon dioxide, sulphur oxides and nitrous gases (NO_x), irritating/caustic, combustible as well as poisonous carbonisation gases.

The product is stable under standard conditions.

SAFETY DATA SHEET	Page 4 of 5
Thermoseal Inc Sidney, OH USA	Product Trade Name: KLINGERSIL® C-4201

11. Information on Toxicology

In the case of intended use no toxicological effects are known.

12. Information on Ecology

12.1 Information on elimination (Persistence and degradability)

Degree of elimination: not known

Persistence: As composite material biologically not degradable (self-classification)

12.2 Mobility and (bio) accumulation potential:

water insoluble, fat insoluble, no in vivo resorption, bonding or accumulation known.

12.3 Ecotoxicological Effects

Not known.

13. Notes on Disposal

13.1 Product

Recommendation: combustion by a certified recycling company.

Product contains $\geq 3\%$ organic carbon.

13.2 Contaminated Packaging

Recommendation: Disposal in accordance with the national regulations.

14. Information on Transport

14.1 Transport/Further Information

No dangers known.

15. Regulations

Regulations for dangerous material not applicable.

The product covered by this safety information is classified as an article according to regulation (EG) Nr. 1907/2006 (REACH). In compliance with REACH regulation it is not mandatory to issue material safety data sheets for articles.

Duty to communicate information according to regulation (EG) Nr.1907/2006 (REACH):

The article covered by the present safety information does not contain any substance of very high concern by the candidate list to be included in Annex XIV of REACH exceeding the limit of 0.1% (w/w).

Material conforms to the definitions and restrictions given by the European Parliament Directive 2002/95/EC (RoHS) and the Council of January 27, 2003 and European Parliament Directive 2011/65/EU (RoHS 2) and the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

SAFETY DATA SHEET	Page 5 of 5
Thermoseal Inc Sidney, OH USA	Product Trade Name: KLINGERSIL® C-4201

16. Other Information

The data rely on the present conditions of the knowledge and experiences and serve to describe the product regarding safety precautions which can be met. They do not represent a warranty of the product described by characteristics.

Contact person
Mr. Paul Francis Quality and Technical Manager

Revision state: 01

Revision/Modification	Point / Sheet	Date