



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Thermon Heat Transfer Compound Grade T-3

Version number: 2.0
Replaces version of: 2015-12-14 (GHS 1)

Revision: 2021-02-09

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	Thermon Heat Transfer Compound Grade T-3
Registration number (REACH)	not relevant (mixture)
Unique formula identifier (UFI)	J300-3035-F00D-CR7E

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

Relevant identified uses	For use in heat tracing and various other applications to aid in the transfer of heat.
Uses advised against	Do not use for products which come into direct contact with the skin.

1.3 Details of the supplier of the safety data sheet

Thermon Europe B.V.
Boezemweg 25
2641 KG Pijnacker
PO Box: 205
2640 AE
Pijnacker
Netherlands

Telephone: +31 15 3615 370
e-mail: info@thermon.com
Website: www.thermon.com

e-mail (competent person) SDS@thermon.com

1.4 Emergency telephone number

Emergency information service +01 (800) 820-4328 / +01 (512) 396-5801 / +01 (713) 205-2690 (24h)

Poison centre		
Country	Name	Telephone
United Kingdom	National Poisons Information Service (NPIS) (medical professionals only)	0344-8920111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	1	Skin Corr. 1	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.8R	specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335

For full text of abbreviations: see SECTION 16.



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The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word Danger

- pictograms

GHS05, GHS07



- hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

- precautionary statements

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- hazardous ingredients for labelling Silicic acid, sodium salt - powders of molar ratio MR > 2.6

2.3 Other hazards

Hazards arising from this product are primarily present when product is in the uncured state. Once hardened, the compound is non-hazardous; however dust that may result from mechanical disturbance can be hazardous. The uncured product is a viscous paste. The product cures slowly upon exposure to air or more rapidly upon exposure to heat.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

The product does not contain any other ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	CAS No 1344-09-8 EC No 215-687-4 REACH Reg. No 01-2119448725- 31-xxxx	25 - < 50	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335		

Remarks

For full text of H-phrases: see SECTION 16. All the percentages given are percentages by weight unless stated otherwise.



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SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Do not take off clothes. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Call a POISON CENTER/doctor. In case of respiratory tract irritation, consult a physician.

Following skin contact

Do not take off clothes. Wash with plenty of soap and water. Immediately call a POISON CENTER/doctor.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

If inhaled

May cause respiratory irritation.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye irritation.

If swallowed

May cause gastrointestinal irritation.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray; Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

During fire hazardous fumes/smoke could be produced. The product is not combustible.

5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

In the uncured state the material is a viscous paste. Compound is water soluble and may be diluted with water. Compound will harden, if undiluted, in air. Hardening is accelerated with the application of heat. In the hardened state, scrape, chisel, or grind areas and collect the dry residue. Collect into a closed container. This material and its container must be disposed of in a safe way, and as per local legislation.

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. In the uncured state the material is a viscous paste. Compound is water soluble and may be diluted with water. Compound will harden, if undiluted, in air. Hardening is accelerated with the application of heat. In the hardened state, scrape, chisel, or grind areas and collect the dry residue. Collect into a closed container. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

- handling of incompatible substances or mixtures

Do not mix with acids.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- incompatible substances or mixtures

Keep away from alkalis, heavy metals and their salts, reducing agents, ammonium compounds, acids.



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Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed. Store separately from acids, reactive metals and ammonium salts. Store in clean steel or plastic containers. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized steel containers.

- specific designs for storage rooms or vessels

- storage temperature

Room temperature

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
GB	kaolin	1332-58-7	WEL		2			r	EH40/2005

Notation

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	DNEL	1.59 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	DNEL	5.61 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	DNEL	0.8 mg/kg	human, oral	consumer (private households)	chronic - systemic effects
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	DNEL	0.8 mg/kg	human, dermal	consumer (private households)	chronic - systemic effects
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	DNEL	1.38 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects



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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	PNEC	7.5 mg/l	aquatic organisms	freshwater	short-term (single instance)
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	PNEC	1 mg/l	aquatic organisms	marine water	short-term (single instance)
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	PNEC	348 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	PNEC	7.5 mg/l	aquatic organisms	water	intermittent release

8.2 Exposure controls

Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection (EN 166).

Skin protection

Protective clothing (EN 340 & EN ISO 13688).

- hand protection



Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Chemical protection gloves are suitable, which are tested according to EN 374. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of material

PVC: polyvinyl chloride, PE: polyethylene, NP: Neoprene, Nitrile/butadiene rubber, EVAL: Ethyl vinyl alcohol laminate, Vinyl

- material thickness

Use gloves with a minimum material thickness: $\geq 0,38$ mm.

- breakthrough times of the glove material

Use gloves with a minimum breakthrough times of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Provide eyewash stations and safety showers at the workplace.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. P3 (filters at least 99,95 % of airborne particles, colour code: White).



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Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid (paste)
Colour	charcoal gray
Odour	characteristic
Melting point/freezing point	0 °C
Boiling point or initial boiling point and boiling range	101 – 102 °C at 760 mmHg
Flammability	non-combustible
Lower and upper explosion limit	LEL: UEL: not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	10 – 12
Kinematic viscosity	not determined

Solubility(ies)

Water solubility	50 % soluble
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Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	156 mmHg at 61.5 °C
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Density	not determined
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Relative density	1.6 (water = 1)
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Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

High temperature will cause a hardening effect that is intended per the use of product. There is no known effect on the material with exposure to light or shock.

10.5 Incompatible materials

The uncured compound turns to a gel and generates heat when mixed with acid. The compound may react with ammonium salts resulting in evolution of ammonia gas. The compound can react with sugar residues to form carbon monoxide.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Compound may decompose when mixed with acids releasing silicic acid.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

- acute toxicity of components of the mixture

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	oral	LD50	3,400 mg/kg	rat

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.



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Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Hazards arising from this product are primarily present when product is in the uncured state. Once hardened, the compound is non-hazardous; however dust that may result from mechanical disturbance can be hazardous. Once hardened, the compound is non hazardous. Cutting, grinding, crushing, or drilling hardened compound may generate dust containing silica, graphite, and/or inorganic colorant. The dust may irritate the nose, throat, and respiratory tract. Coughing, sneezing, chest pain, shortness of breath, inflammation of mucous membrane, and flu-like fever may occur following exposures in excess of appropriate exposure limits. Pre-existing respiratory conditions may be aggravated when in the presence of dust.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	LC50	1,108 mg/l	fish	96 h
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	EC50	1,700 mg/l	aquatic invertebrates	48 h
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	ErC50	>345.4 mg/l	algae	72 h
Silicic acid, sodium salt - powders of molar ratio MR > 2.6	1344-09-8	NOEC	348 mg/l	fish	96 h

12.2 Persistence and degradability

This material is not persistent in aquatic systems. It is high in pH, (when undiluted and/or not neutralized) which is acutely harmful to aquatic life. Diluted material rapidly de-polymerizes to yield dissolved silica (not distinguishable from natural dissolved silica). It does not contribute to BOD. This material does not bioaccumulate except in species that use silica as a structural material such as siliceous sponges and diatoms. The addition of excess dissolved silica over the limiting concentrations will not stimulate the growth of diatom populations. Neither silica nor sodium will appreciably bio-concentrate up the food chain.



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12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of cured compound in an industrial waste facility or landfill having appropriate permits. Alternately, cured compound may be disposed of in a waste incineration facility having proper permitting. Prevent discharges to streams or sewer systems.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | |
|--|---|
| 14.1 UN number or ID number | not subject to transport regulations |
| 14.2 UN proper shipping name | not assigned |
| 14.3 Transport hazard class(es) | none |
| 14.4 Packing group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | There is no additional information. |
| 14.7 Maritime transport in bulk according to IMO instruments | The cargo is not intended to be carried in bulk. |

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

not assigned

International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.



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International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	Restriction	No
Thermon Heat Transfer Compound Grade T-3	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3

Legend

R3

- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ash-trays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
- Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
 - grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
 - lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
- No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
- Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

None of the ingredients are listed.

Regulation 98/2013/EU on the marketing and use of explosives precursors

None of the ingredients are listed.



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15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
1.1		Unique formula identifier (UFI): J300-3035-F00D-CR7E
1.2		Uses advised against: Do not use for products which come into direct contact with the skin.
1.3	Details of the supplier of the safety data sheet: Thermon Europe B.V. Boezemweg 25 2641 KG Pijnacker PO Box: 205 2640 AE Netherlands Telephone: +31 15 3615 316 Telefax: e-mail: info@thermon.com Website: www.thermon.com	Details of the supplier of the safety data sheet: Thermon Europe B.V. Boezemweg 25 2641 KG Pijnacker PO Box: 205 2640 AE Pijnacker Netherlands Telephone: +31 15 3615 370 e-mail: info@thermon.com Website: www.thermon.com
1.4		Emergency information service: +01 (800) 820-4328 / +01 (512) 396-5801 / +01 (713) 205-2690 (24h)
2.1	Remarks: For full text of H-phrases: see SECTION 16.	
2.1	Supplemental hazard information: Hazards arising from this product are primarily present when product is in the uncured state. Once hardened, the compound is non-hazardous; however dust that may result from mechanical disturbance can be hazardous.	
2.1		The most important adverse physicochemical, human health and environmental effects: Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.
2.2	Signal word: Warning	- signal word: Danger
2.2		- hazardous ingredients for labelling: Silicic acid, sodium salt - powders of molar ratio MR > 2.6
2.3	Other hazards: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	Other hazards: Hazards arising from this product are primarily present when product is in the uncured state. Once hardened, the compound is non-hazardous; however dust that may result from mechanical disturbance can be hazardous. The uncured product is a viscous paste. The product cures slowly upon exposure to air or more rapidly upon exposure to heat.
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.



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Section	Former entry (text/value)	Actual entry (text/value)
3.2	Mixtures	Mixtures: The product does not contain any other ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.
3.2		Remarks: For full text of H-phrases: see SECTION 16. All the percentages given are percentages by weight unless stated otherwise.
4.1	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.	General notes: Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Do not take off clothes. In all cases of doubt, or when symptoms persist, seek medical advice.
4.1	Following inhalation: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.	Following inhalation: Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Call a POISON CENTER/doctor. In case of respiratory tract irritation, consult a physician.
4.1	Following skin contact: Brush off loose particles from skin. - Rinse skin with water/shower.	Following skin contact: Do not take off clothes. Wash with plenty of soap and water. Immediately call a POISON CENTER/doctor.
4.1	Following eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.	Following eye contact: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
4.1	Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.	Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.
4.2	Most important symptoms and effects, both acute and delayed: Symptoms and effects are not known to date.	Most important symptoms and effects, both acute and delayed
4.2		If inhaled: May cause respiratory irritation.
4.2		If on skin: Causes skin irritation.
4.2		If in eyes: Causes serious eye irritation.
4.2		If swallowed: May cause gastrointestinal irritation.
4.3	Indication of any immediate medical attention and special treatment needed: none	Indication of any immediate medical attention and special treatment needed: For specialist advice physicians should contact the poison centre.
5.1	Suitable extinguishing media: the product is not combustible, co-ordinate firefighting measures to the fire surroundings	Suitable extinguishing media: Water spray; Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO ₂)
5.2	Hazardous combustion products: carbon monoxide (CO), carbon dioxide (CO ₂)	Hazardous combustion products: During fire hazardous fumes/smoke could be produced. The product is not combustible.



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5.3	Advice for firefighters: In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.	Advice for firefighters: Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.
5.3		Special protective equipment for firefighters: Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.
6.1	For non-emergency personnel: Remove persons to safety.	For non-emergency personnel: Remove persons to safety. Ventilate affected area.
6.1	For emergency responders: Wear breathing apparatus if exposed to vapours/dust/spray/gases.	For emergency responders: Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.
6.3	Advices on how to clean up a spill: Take up mechanically. Wipe up with absorbent material (e.g. cloth, fleece).	Advice on how to clean up a spill: In the uncured state the material is a viscous paste. Compound is water soluble and may be diluted with water. Compound will harden, if undiluted, in air. Hardening is accelerated with the application of heat. In the hardened state, scrape, chisel, or grind areas and collect the dry residue. Collect into a closed container. This material and its container must be disposed of in a safe way, and as per local legislation.
6.3		Appropriate containment techniques: Use of adsorbent materials.
6.3	Other information relating to spills and releases: Place in appropriate containers for disposal. Ventilate affected area.	Other information relating to spills and releases: Place in appropriate containers for disposal. In the uncured state the material is a viscous paste. Compound is water soluble and may be diluted with water. Compound will harden, if undiluted, in air. Hardening is accelerated with the application of heat. In the hardened state, scrape, chisel, or grind areas and collect the dry residue. Collect into a closed container. This material and its container must be disposed of in a safe way, and as per local legislation.
7.1	• Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas.	- measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Use only in well-ventilated areas.
7.1		- handling of incompatible substances or mixtures: Do not mix with acids.
7.2	Incompatible substances or mixtures: Keep in a cool, well-ventilated place away from acids, alkalis, heavy metal salts and reducing substances. Ammonium compounds.	- incompatible substances or mixtures: Keep away from alkalis, heavy metals and their salts, reducing agents, ammonium compounds, acids.
7.2		Protect against external exposure, such as: High temperatures. UV-radiation/sunlight.
7.2	Consideration of other advice	Consideration of other advice: Store in a well-ventilated place. Keep container tightly closed. Store separately from acids, reactive metals and ammonium salts. Store in clean steel or plastic containers. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized steel containers.



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7.2	<ul style="list-style-type: none"> Ventilation requirements: Use local and general ventilation. 	
7.2		Storage temperature: Room temperature
7.3	Specific end use(s): Not relevant.	Specific end use(s): There is no additional information.
8.2	Appropriate engineering controls: General ventilation.	Appropriate engineering controls: Provide adequate general and local exhaust ventilation.
8.2	Eye/face protection: Use safety goggle with side protection. (EN 166).	Eye/face protection: eye protection must be worn Use safety goggle with side protection (EN 166).
8.2	Skin protection	Skin protection: Protective clothing (EN 340 & EN ISO 13688).
8.2	<ul style="list-style-type: none"> hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. 	<p>Hand protection: safety gloves must be worn</p> <p>Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Chemical protection gloves are suitable, which are tested according to EN 374. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p>
8.2	<ul style="list-style-type: none"> type of material: NR: natural rubber, latex 	Type of material: PVC: polyvinyl chloride, PE: polyethylene, NP: Neoprene, Nitrile/butadiene rubber, EVAL: Ethyl vinyl alcohol laminate, Vinyl
8.2		Material thickness: Use gloves with a minimum material thickness: $\geq 0,38$ mm.
8.2	<ul style="list-style-type: none"> other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. 	- other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Provide eye-wash stations and safety showers at the workplace.
8.2	Respiratory protection: In case of inadequate ventilation wear respiratory protection. Particulate filter device (EN 143). P3 (filters at least 99,95 % of airborne particles, colour code: White).	Respiratory protection: In case of inadequate ventilation wear respiratory protection. P3 (filters at least 99,95 % of airborne particles, colour code: White).
8.2	Environmental exposure controls: Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.	Environmental exposure controls: Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.
9.1	Appearance	
9.1	Colour: black	Colour: charcoal gray
9.1	Melting point/freezing point: not determined	Melting point/freezing point: 0 °C



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9.1	Initial boiling point and boiling range: 214 - 216 °C	Boiling point or initial boiling point and boiling range: 101 - 102 °C at 760 mmHg
9.1	Flammability (solid, gas): not relevant (fluid) non-flammable	Flammability: non-combustible
9.1	Explosive limits: not determined	Lower and upper explosion limit: LEL: UEL: not determined
9.1	Evaporation rate: not determined	
9.1		Decomposition temperature: not relevant
9.1	pH (value): 11	pH (value): 10 - 12
9.1		Kinematic viscosity: not determined
9.1	Solubility(ies): not determined	Solubility(ies)
9.1	Viscosity: not determined	
9.1	Explosive properties: none	
9.1	Oxidising properties: none	
9.1		Water solubility: 50 % soluble
9.1	Relative density: Information on this property is not available.	Relative density: 1.6 (water = 1)
9.1		Particle characteristics: not relevant (liquid)
9.2	Other information: Of no significance.	Other information
9.2		Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant
9.2		Other safety characteristics: there is no additional information
10.1	Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".	Reactivity: This material is not reactive under normal ambient conditions.
10.2	Chemical stability: See below "Conditions to avoid".	Chemical stability: The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.4	Conditions to avoid: High temperature will cause a hardening effect that is intended per the use of product.	Conditions to avoid: High temperature will cause a hardening effect that is intended per the use of product. There is no known effect on the material with exposure to light or shock.



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Section	Former entry (text/value)	Actual entry (text/value)
10.4	Physical stresses which might result in a hazardous situation and have to be avoided: strong shocks	
11.1	Skin corrosion/irritation: Causes skin irritation.	Skin corrosion/irritation: Causes severe skin burns and eye damage.
11.1	Serious eye damage/eye irritation: Causes serious eye irritation.	Serious eye damage/eye irritation: Causes serious eye damage.
11.1	Summary of evaluation of the CMR properties: Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.	
11.1	Specific target organ toxicity (STOT): Shall not be classified as a specific target organ toxicant.	
11.1		Germ cell mutagenicity: Shall not be classified as germ cell mutagenic.
11.1		Carcinogenicity: Shall not be classified as carcinogenic.
11.1		Reproductive toxicity: Shall not be classified as a reproductive toxicant.
11.1		Specific target organ toxicity - single exposure: May cause respiratory irritation.
11.1		Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure).
11.2		Information on other hazards: There is no additional information.
12.1	Biodegradation: The relevant substances of the mixture are readily biodegradable.	
13.1	Waste treatment methods	Waste treatment methods: Dispose of cured compound in an industrial waste facility or landfill having appropriate permits. Alternately, cured compound may be disposed of in a waste incineration facility having proper permitting. Prevent discharges to streams or sewer systems.
13.1	Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.	Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment.
14.2	UN proper shipping name: not relevant	UN proper shipping name: not assigned
16	Key literature references and sources for data: - Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU - Regulation (EC) No. 1272/2008 (CLP, EU GHS)	Key literature references and sources for data: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU. Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).



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Section	Former entry (text/value)	Actual entry (text/value)
16	<p>Disclaimer: Data is presented in good faith and is based on the present state of our knowledge. It is intended to describe the compound with regard to the appropriate safety precautions. This information is not intended to be a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, users should review these recommendations in the specific context of the intended use and determine whether they are appropriate.</p>	<p>Disclaimer: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.</p>

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	= EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval



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Abbr.	Descriptions of used abbreviations
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.



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