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according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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1 Identification

· Product identifier

· Trade name: Speed Heat

· Other means of identification: No other identifiers

· Recommended use and restriction on use

· Recommended use: Heat source

· Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

Sterno, LLC 6900 N Dallas Pkwy #870

Plano, TX 75024

Phone: (951) 682-9600

Emergency telephone number:

ChemTel Inc.

(800) 255-3924 (North America) (801) 1 (813)248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture

Water-react. 3 H261 In contact with water releases flammable gas.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

H350 May cause cancer. Route of exposure: Inhalation. Carc. 1A

STOT SE 3 H335 May cause respiratory irritation.

· Additional information:

Product generates heat when mixed with water. Thermal burns are possible under these conditions.

- · Label elements
- · GHS label elements

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

· Hazard pictograms:









GHS02 GHS05 GHS07 GHS08

· Signal word: Danger

· Hazard statements:

H261 In contact with water releases flammable gas.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H350 May cause cancer. Route of exposure: Inhalation.

H335 May cause respiratory irritation.

· Precautionary statements:

Obtain special instructions before use. P201

P202 Do not handle until all safety precautions have been read and understood.

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(Cont'd. of page 1) P231+P232 Handle under inert gas. Protect from moisture.

P261 Avoid breathing dust.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection.

P302+P352 If on skin: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Immediately call a poison center/doctor. P310

IF exposed or concerned: Get medical advice/attention. P308+P313 P332+P313 If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. P362+P364

P370+P378 In case of fire: Use for extinction: Dry sand, graphite powder, or special powder for

metal fires.

Store in a dry place. Store in a closed container. P402+P404

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

P405 Store locked up.

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

regulations.

Other hazards

Product generates heat when mixed with water. Thermal burns are possible under these conditions.

There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:			
7429-90-5	Aluminium	♦ Pyr. Sol. 1, H250; Water-react. 2, H261	40-60%
1305-62-0	Calcium dihydroxide	Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335	10-25%
1305-78-8	Calcium oxide	Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335	10-20%
497-19-8	Sodium carbonate	◆ Eye Irrit. 2A, H319	<10%
1309-48-4	Magnesium oxide		<10%
471-34-1	Calcium carbonate		<10%
14808-60-7	Quartz (SiO2)	Carc. 1A, H350; STOT RE 1, H372	<1%

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

- Description of first aid measures
- · General information:

Information is only applicable to product contents, and not to product as normally supplied. This

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information is applicable to damaged, leaking, or spilled product as contact with contents is possible under these conditions.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

In case of minor burns, flush with cool water.

Seek medical treatment in case of complaints.

· After eve contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

Coughing

Irritant to skin and mucous membranes.

Irritating to eyes.

May cause respiratory irritation.

Gastric or intestinal disorders when ingested.

· Danger:

Danger of gastric perforation.

Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:

Carbon dioxide

Fire-extinguishing powder

Foam

Gaseous extinguishing agents

Sand

- · For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture

Reacts violently with water.

In contact with water releases flammable gas.

- Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Use personal protective equipment as required.

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For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Methods and material for containment and cleaning up

Pick up mechanically.

Rinse remainder away with copious quantities of water.

Send for recovery or disposal in suitable receptacles.

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

- ·Handling
- · Precautions for safe handling:

Keep out of reach of children.

Handle with care.

Avoid contact with the eyes and skin.

Prevent formation of dust.

Avoid breathing dust.

Use only in well ventilated areas.

· Information about protection against explosions and fires:

Reacts violently with water.

In contact with water releases flammable gas.

- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

Storage area should be dry and well-ventilated.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from water.

Further information about storage conditions:

Keep containers tightly sealed.

Protect from humidity and water.

This product is hygroscopic.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:		
7429-90-5 Aluminium		
PEL (USA)	Long-term value: 15*; 5** mg/m³	
	*Total dust; ** Respirable fraction	

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		(Confid of none 4)
REL (USA)	Long-term value: 10* 5** mg/m³	(Cont'd. of page 4)
(,	as Al*Total dust**Respirable/pyro powd./welding f.	
TLV (USA)	Long-term value: 1* mg/m³ as Al; *as respirable fraction	
EL (Canada)	Long-term value: 1.0 mg/m³ respirable, as Al	
EV (Canada)	Long-term value: 5 mg/m³ aluminium-containing (as aluminium)	
LMPE (Mexico)	Long-term value: 1* mg/m³ A4, *fracciòn respirable	
1305-62-0 Calc	cium dihydroxide	
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction	
REL (USA)	Long-term value: 5 mg/m³	
TLV (USA)	Long-term value: 5 mg/m³	
EL (Canada)	Long-term value: 5 mg/m³	
EV (Canada)	Long-term value: 5 mg/m³	
LMPE (Mexico)	Long-term value: 5 mg/m³	
1305-78-8 Calc	cium oxide	
PEL (USA)	Long-term value: 5 mg/m³	
REL (USA)	Long-term value: 2 mg/m³	
TLV (USA)	Long-term value: 2 mg/m³	
EL (Canada)	Long-term value: 2 mg/m³	
EV (Canada)	Long-term value: 2 mg/m³	
LMPE (Mexico)	Long-term value: 2 mg/m³	
1309-48-4 Mag	nesium oxide	
PEL (USA)	Long-term value: 15* mg/m³ fume; *total particulate	
TLV (USA)	Long-term value: 10* mg/m³ *as inhalable fraction	
EL (Canada)	Short-term value: 10** mg/m³ Long-term value: 10* 3** mg/m³ *inhalable fume;**respirable dust and fume	
EV (Canada)	Long-term value: 10 mg/m³ inhalable	
LMPE (Mexico)	Long-term value: 10* mg/m³ A4, *fracción respirable	
471-34-1 Calci	um carbonate	
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction	
TLV (USA)	TLV withdrawn	
14808-60-7 Qu	artz (SiO2)	
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PEL (USA)	Long-term value: 0.05* mg/m³ *resp. dust; 30mg/m3/%SiO2+2	
REL (USA)	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A	
TLV (USA)	Long-term value: 0.025* mg/m³ *as respirable fraction	
EL (Canada)	Long-term value: 0.025 mg/m³ ACGIH A2; IARC 1	
EV (Canada)	Long-term value: 0.10* mg/m³ *respirable fraction	
LMPE (Mexico)	Long-term value: 0.025* mg/m³ A2, *fracción respirable	

- Exposure controls
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Avoid breathing dust.

- · Engineering controls: Provide adequate ventilation.
- · Breathing equipment: For large spills, respiratory protection may be advisable.
- Protection of hands:



Thermally-protective gloves.

Protection may be required for spills.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eve protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment

No relevant information available.

· Risk management measures No relevant information available.

9 Physical and chemical properties

Information on basic physical and chemical properties

· Appearance:

Form: Outer shell containing powder, granular, or solid materials.

Color: According to product specification

· Odor: Characteristic

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· Odor threshold:	Not determined.	
· pH-value: · Melting point/Melting range: · Boiling point/Boiling range:	Alkaline Not determined. Not determined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	In contact with water releases flammable gas.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits Lower: Upper: Oxidizing properties:	Not determined. Not determined. Not determined.	
· Vapor pressure:	Not determined.	
Density: Relative density: Vapor density: Evaporation rate:	Not determined. Not applicable. Not applicable.	
· Solubility in / Miscibility with Water:	Reacts with water.	
· Partition coefficient (n-octanol/water):	Not determined.	
· Viscosity Dynamic: Kinematic: Other information	Not applicable. Not applicable. No relevant information available.	
Other information	no relevant information available.	

10 Stability and reactivity

- · Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided: Heating occurs when water is added.
- Possibility of hazardous reactions

Strong exothermic reaction with acids.

Contact with water releases flammable gases.

- · Conditions to avoid Moisture.
- · Incompatible materials Strong acids
- Hazardous decomposition products Hydrogen

11 Toxicological information

· Information on toxicological effects

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- Acute toxicity: Based on available data, the classification criteria are not met.
- LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- On the skin:

Thermal burns when mixed with water.

None from normal handling. Symptoms only seen in exposure to leaking articles.

Irritant to skin and mucous membranes.

· On the eye:

None from normal handling. Symptoms only seen in exposure to leaking articles.

Strong irritant with the danger of severe eye injury.

· Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer): 14808-60-7 | Quartz (SiO2) | 1 • NTP (National Toxicology Program):

NTF (National Toxicology Frogram).

14808-60-7 Quartz (SiO2)

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· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

- · Probable route(s) of exposure: Skin contact.
- · Acute effects (acute toxicity, irritation and corrosivity): Thermal burns when mixed with water.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity:

None from normal handling. Symptoms only seen in exposure to leaking articles.

May cause cancer. Route of exposure: Inhalation.

- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure:

None from normal handling. Symptoms only seen in exposure to leaking articles.

May cause respiratory irritation.

- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · **Mobility in soil:** No relevant information available.
- · Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods

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· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

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

UN-Number DOT, ADR/RID/ADN, IMDG, IATA	UN1396
UN proper shipping name DOT, IATA ADR/RID/ADN, IMDG	Aluminium powder, uncoated ALUMINIUM POWDER, UNCOATED
Transport hazard class(es)	
DOT	
ANCIENT TO	
Class	4.3
LabelADR/RID/ADN	4.3
Class	4.3 (W2)
Label	4.3
IMDG, IATA	
Class	4.3
Label	4.3
Packing group DOT, ADR/RID/ADN, IMDG, IATA	III
Environmental hazards Marine pollutant:	No
Special precautions for user	Warning: Substances which, in contact with water, e
Danger code (Kemler):	423



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- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
- · Transport/Additional information:
- · DOT



Limited Quantity for packages less than 30 kg gross and inner packagings less than 10 kg each.

ADR/RID/ADN



Limited Quantity for packages less than 30 kg gross and inner packagings less than 10 kg each.

· IMDG



Limited Quantity for packages less than 30 kg gross and inner packagings less than 10 kg each.

·IATA



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 kg each / 10 kg net.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- Section 302 (extremely hazardous substances):

None of the ingredients are listed.

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

7429-90-5 Aluminium

· TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

14808-60-7 Quartz (SiO2)

· Chemicals known to cause developmental toxicity for females:

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None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

14808-60-7 Quartz (SiO2)

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· Canadian Domestic Substances List (DSL):

All ingredients are listed or exempt.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: 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

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Pyr. Sol. 1: Pyrophoric solids – Category 1

Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2 Water-react. 3: Substances and mixtures which in contact with water emit flammable gases – Category 3

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Carc. 1A: Carcinogenicity - Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com