



SAFETY DATA SHEET

Page 1/11

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

ISSUE DATE: 1-3-22

REVIEWED ON: 1-3-22

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

1. IDENTIFICATION

PRODUCT IDENTIFIER

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Product Description: This Mineral Core is gray/brown in color and a proprietary product of Warm Springs Composite Products used in the construction of fire rated doors, mainly for 45 & 60 min applications, but also carries limited certifications at 90 minutes to the US Standards.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Manufacturer/Supplier:

Warm Springs Composite Products
3270 U.S. Hwy. 26 Bldg. #8
P.O. Box 906
Warm Springs, OR 97761
1-541-553-1143 | wscp.com

🚨 **Emergency telephone number:** 1-541-553-1143

2. HAZARD(S) IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE



Health hazard



Carc. 1A H350 May cause cancer.
STOT RE 2 H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

STOT SE 3 H335 May cause respiratory irritation.

Additional information: Hazards exempt when in solid form or when it cannot be released due to cutting, grinding, heating, etc. This product does not contain Asbestos, Volatile Organic Chemicals (VOC's) or Formaldehyde.

LABEL ELEMENTS

Hazard pictograms:



Signal word: Danger

Hazard-determining components of labeling:

Starch
Quartz (SiO₂)

Hazard statements:

H350 May cause cancer.
H335 May cause respiratory irritation.
H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

(CONTINUED ON PAGE 2)



SAFETY DATA SHEET

Page 2/11

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

ISSUE DATE: 1-3-22

REVIEWED ON: 1-3-22

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

Precautionary statements:

- P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a poison center/doctor if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
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.

Unknown acute toxicity: This value refers to knowledge of known, established toxicological or ecotoxicological values. 67% of the mixture consists of component(s) of unknown toxicity.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA ratings (scale 0-4)



Health = 0
Fire = 0
Reactivity = 0

HMIS ratings (scale 0-4)



Health = *0
Fire = 0
Physical Hazzard = 0

Hazard(s) not otherwise classified (HNOC): None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substance

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous Components:

CAS: 93763-70-3	Perlite	<30%
RTECS: SDS5254000		
CAS: 1332-58-7	Kaolin	<20%
	⚠ Acute Tox. 4, H332	
CAS: 9004-34-6	Cellulose	<20%
CAS: 9005-25-8	Starch	<20%
	⚠ STOT SE 3, H335; Combustible Dust	
CAS: 14808-60-7	Quartz (SiO ₂)	≤2%
RTECS: VV 7330000	⚠ Carc. 1A, H350; STOT RE 1, H372; ⚠ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320	

Additional information: Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in the product is ≤2%. Exposures to respirable crystalline silica during the normal use of this product must be determined by workplace hygiene testing.

(CONTINUED ON PAGE 3)

**SAFETY DATA SHEET**

Page 3/11

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

ISSUE DATE: 1-3-22

REVIEWED ON: 1-3-22

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

Additional information: Raw materials and/or coatings in this product contain small amounts of titanium dioxide, which has been classified as possibly carcinogenic to humans by the International Agency for Research on Cancer (IARC). However, per IARC “no significant exposure to primary particles of titanium dioxide is thought to occur during the use of product in which titanium dioxide is bound to other materials, such as in paints”

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4. FIRST-AID MEASURES**DESCRIPTION OF FIRST AID MEASURES**

General information: If symptoms persist, call a physician.

After inhalation: Dust produced by cutting, sanding, grinding or if dust is produced by any other operation may irritate respiratory tract. Supply fresh air; consult doctor in case of complaints.

After skin contact: Wash with soap and water.
Generally, the product does not irritate the skin.
If skin irritation occurs, consult a doctor.

After eye contact: If eye irritation occurs, consult a doctor.
Rinse opened eye for several minutes under running water.

After swallowing: If swallowed and symptoms occur, consult a doctor.

INFORMATION FOR DOCTOR**Most important symptoms and effects, both acute and delayed:**

Quartz: Can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death; inhaled from occupational sources is classified as carcinogenic to humans. Some studies show in workers exposed to respirable quartz excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease, chronic bronchitis and emphysema.

Kaolin: Prolonged inhalation of excessive levels of kaolin may cause a benign pneumoconiotic condition, not normally associated with a decrement in lung function. In cases of long-term exposure to extremely high levels of dust, progressive fibrosis may occur with lung function impairment.

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

5. FIRE-FIGHTING MEASURES**EXTINGUISHING MEDIA**

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: No further relevant information.

Special hazards arising from the substance or mixture: No further relevant information available.

ADVICE FOR FIREFIGHTERS

Special protective equipment for firefighters: 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Not required.

Environmental precautions: No special measures required.

(CONTINUED ON PAGE 4)



SAFETY DATA SHEET

Page 4/11

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

ISSUE DATE: 1-3-22

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Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.

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.

PAC-1:

93763-70-3	Perlite	15 mg/m ³
14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³

PAC-2:

93763-70-3	Perlite	230 mg/m ³
14808-60-7	Quartz (SiO ₂)	33 mg/m ³

PAC-3:

93763-70-3	Perlite	1,400 mg/m ³
14808-60-7	Quartz (SiO ₂)	200 mg/m ³

7. HANDLING AND STORAGE

HANDLING

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

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: No special measures required.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Control parameters:

Components with occupational exposure limits:

93763-70-3 Perlite

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	TLV withdrawn

(CONTINUED ON PAGE 5)

**SAFETY DATA SHEET**

Page 5/11

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

ISSUE DATE: 1-3-22

REVIEWED ON: 1-3-22

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

1332-58-7 Kaolin

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 2* mg/m ³ E; as respirable fraction, A4

9004-34-6 Cellulose

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 10 mg/m ³

9005-25-8 Starch

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 10 mg/m ³ A4

14808-60-7 Quartz (SiO₂)

PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *respirable particulate matter, A2

Additional information: The lists that were valid during the creation of this SDS were used as basis.**EXPOSURE CONTROLS****Personal protective equipment**

General protective and hygienic measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Keep away from food and drink.

Breathing equipment:

A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or where dust extraction cannot maintain permissible exposure limits.

Protection of hands: Not required.**Material of gloves:** Not applicable.**Penetration time of glove material:** Not applicable.**Eye protection:**

Wear safety glasses with side shields (or goggles). Ensure compliance with OSHA's PPE standards for eye and face protection. Provide an emergency eye wash fountain in the immediate work area.

Limitation and supervision of exposure into the environment: None



SAFETY DATA SHEET

Page 6/11

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

ISSUE DATE: 1-3-22

REVIEWED ON: 1-3-22

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9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

General Information

Appearance:

Form: Solid panel

Color: Grey/brown

Odor: Low to no odor

Odor threshold: Not determined.

pH-value @ 20° C (68° F): 9

Change in condition

Melting point/Melting range: 2,200° C (3,600° F)

Flash point: None.

Flammability (solid, gaseous): Not applicable.

Ignition temperature: Not applicable.

Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

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

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapor pressure: Not determined.

Density: .29-.37 g/cm³ (2.42-3.0877 lbs./gal.)

Bulk density: 1.12-1.43 kg/m³ (18-23 lbs./cu. ft.)

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility

with Water: Fully miscible.

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

Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

Solvent content:

VOC content: 0.00%

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.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

(CONTINUED ON PAGE 7)



SAFETY DATA SHEET

Page 7/11

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

ISSUE DATE: 1-3-22

REVIEWED ON: 1-3-22

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Incompatible materials: Strong oxidizing agents.

Contact with fluorine, oxygen difluoride, and chlorine trifluoride will cause fire.

Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS:

Acute toxicity:

LD/LC50 values that are relevant for classification:

1332-58-7 Kaolin

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rat)
Inhalative	LC50/4 h	>2 mg/l (Rat)

9004-34-6 Cellulose

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

14808-60-7 Quartz (SiO2)

Oral	LD50	>22,500 mg/kg (Rat) mg/kg (Rabbit)
Inhalative	LC50/96 hours	1,033 mg/l (Trout)

Primary irritant effect:

On the skin: May be irritating.

On the eye: May be irritating.

Additional toxicological information:

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

CARCINOGENIC CATEGORIES

IARC (International Agency for Research on Cancer): "In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicate dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk." (SCOEL SUM Doc 94-final, June 2003). According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled"

Group 1	Carcinogenic to humans
Group 2A	Probably carcinogenic to humans
Group 2B	Possibly carcinogenic to humans
Group 3	Not classifiable as to its carcinogenicity to humans
Group 4	Probably not carcinogenic to humans

14808-60-7 Quartz (SiO2) 1

(CONTINUED ON PAGE 8)

**SAFETY DATA SHEET**

Page 8/11

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

ISSUE DATE: 1-3-22

REVIEWED ON: 1-3-22

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

NTP (National Toxicology Program):

K - Known to be a human carcinogen

14808-60-7 Quartz (SiO₂)

K

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.**Specific target organ toxicity - repeated exposure:** Causes damage to organs through prolonged or repeated exposure.**12. ECOLOGICAL INFORMATION****TOXICITY****Aquatic toxicity:****14808-60-7 Quartz (SiO₂)**

EC50 218 mg/l (Green algae)

1332-58-7 Kaolin

LC50 >1.1 g/l, 48 hours (Daphnia)

Persistence and degradability: No further relevant information available.**BEHAVIOR IN ENVIRONMENTAL SYSTEMS****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**ADDITIONAL ECOLOGICAL INFORMATION****General notes:** Generally not 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:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.**UNCLEANED PACKAGING****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, ADN, IMDG, IATA****Class:** Non-Regulated Material.**Packing group:****DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material

(CONTINUED ON PAGE 9)



SAFETY DATA SHEET

Page 9/11

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

ISSUE DATE: 1-3-22

REVIEWED ON: 1-3-22

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

Environmental hazards:	Not applicable.
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":	Non-Regulated Material

15. REGULATORY INFORMATION

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

SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

1332-58-7	Kaolin	ACTIVE
9004-34-6	Cellulose	ACTIVE
9005-25-8	Starch	ACTIVE
14808-60-7	Quartz (SiO2)	ACTIVE

Hazardous Air Pollutants: None of the ingredients are listed.

California Proposition 65:



WARNING: This product can expose you to chemicals including [one or more listed chemical] which is [are] known to the State of California to cause cancer [or birth defects or other reproductive harm]. For more information, go to www.P65Warnings.ca.gov.

Chemicals known to cause cancer:

14808-60-7 Quartz (SiO2)

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.

New Jersey Right-to-Know List:

93763-70-3 Perlite
1332-58-7 Kaolin
9004-34-6 Cellulose
14808-60-7 Quartz (SiO2)

New Jersey Special Hazardous Substance List:

14808-60-7 Quartz (SiO2)

Pennsylvania Right-to-Know List:

1332-58-7 Kaolin
9004-34-6 Cellulose
9005-25-8 Starch
14808-60-7 Quartz (SiO2)

Pennsylvania Special Hazardous Substance List: None of the ingredients are listed.

Carcinogenic categories:

EPA (Environmental Protection Agency): None of the ingredients are listed.



SAFETY DATA SHEET

Page 10/11

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

ISSUE DATE: 1-3-22

REVIEWED ON: 1-3-22

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

TLV (Threshold Limit Value established by ACGIH):

93763-70-3	Perlite	A4
1332-58-7	Kaolin	2 mg/m ³
9005-25-8	Starch	A4
14808-60-7	Quartz (SiO ₂)	A2

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

14808-60-7 Quartz (SiO₂)

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

Hazard pictograms:



Signal word: Danger

Hazard-determining components of labeling:

Starch

Quartz (SiO₂)

Hazard statements:

H350	May cause cancer.
H335	May cause respiratory irritation.
H373	May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

Precautionary statements:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
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.

National regulations: The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

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.

Contact:

Date of last revision / revision number: 01-03-2022 / 4

(CONTINUED ON PAGE 11)

**SAFETY DATA SHEET**

Page 11/11

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

ISSUE DATE: 1-3-22

REVIEWED ON: 1-3-22

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Abbreviations and acronyms:

ADR:	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN:	The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
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)
VOC:	Volatile Organic Compounds (USA, EU)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
NIOSH:	National Institute for Occupational Safety and Health
OSHA:	Occupational Safety & Health Administration
TLV:	Threshold Limit Value
PEL:	Permissible Exposure Limit
REL:	Recommended Exposure Limit
Acute Tox. 4:	Acute toxicity – Category 4
Eye Irrit. 2B:	Serious eye damage/eye irritation – Category 2B
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
STOT RE 2:	Specific target organ toxicity (repeated exposure) – Category 2

***Data compared to the previous version altered.**

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