Safety Data Sheet (HazCom 2012)
CS-3209 Part A Class B - CS3209AB

Safety Data Sheet date: 1/31/2025, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: CS-3209 Part A Class B

Other means of identification:

SDS code: CS3209AB

Recommended use of the chemical and restrictions on use

Recommended use:

Industrial uses

Sealant

Restrictions on use:

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Manufacturers:

Flamemaster Corp., 13576 Desmond Street, Pacoima, CA 9 133 1 - USA CAGE Code: 14439

Distributors:

Flamemaster Corp., Tel 818-890-1401, Fax 818-890-6001, www.flamemaster.com

Competent person responsible for the safety data sheet:

Flamemaster Corp., Tel 818-890-1401, Fax 818-890-6001, www.flamemaster.com

Emergency phone number:

CHEMTEL: +1-813-248-0585 (International); 1-800-255-3924 (USA)

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Warning, Flam. Liq. 4, Combustible liquid.

Danger, Resp. Sens. 1, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Warning, Skin Sens. 1, May cause an allergic skin reaction.

Danger, Carc. 1A, May cause cancer.

Warning, Repr. 2, Suspected of damaging fertility or the unborn child.

Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Label elements

Hazard pictograms:

Danger

Hazard statements:

H227 Combustible liquid.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/clothing and eye/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use Alcohol foam, carbon dioxide (CO2), dry chemical, water spray/water fog to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 60% - < 70% Aliphatic polysulfide polymer

CAS: 68611-50-7
US-HAE/C3 Aquatic Chronic 3 H412

>= 1% - < 3% aluminium powder (stabilised)

Index number: 013-002-00-1, CAS: 7429-90-5, EC: 231-072-3

B.12/2 Water-react. 2 H261

B.7/1 Flam. Sol. 1 H228

>= 1% - < 3% Toluene
CAS: 108-88-3


B.6/2 Flam. Liq. 2 H225


A.2/2 Skin Irrit. 2 H315


A.3/2A Eye Irrit. 2A H319


A.7/2 Repr. 2 H361d


A.8/3 STOT SE 3 H336


A.9/2 STOT RE 2 H373


A.10/1 Asp. Tox. 1 H304

US-HAE/A2 Aquatic Acute 2 H401
US-HAE/C3 Aquatic Chronic 3 H412

>= 0.5% - < 1% Bisphenol A - epoxy resins, number average MW >700-<1100
CAS: 67924-34-9


B.6/2 Flam. Liq. 2 H225


A.3/2A Eye Irrit. 2A H319


A.2/2 Skin Irrit. 2 H315


A.4.2/1 Skin Sens. 1 H317


A.7/2 Repr. 2 H361d

US-HAE/A2 Aquatic Acute 2 H401
US-HAE/C3 Aquatic Chronic 3 H412

>= 0.1% - < 0.25% tetramethylthiuram disulphide
CAS: 137-26-8


A.1/4/Oral Acute Tox. 4 H302


A.1/4/Inhal Acute Tox. 4 H332


A.2/2 Skin Irrit. 2 H315


A.3/2A Eye Irrit. 2A H319


A.4.2/1 Skin Sens. 1 H317


A.9/2 STOT RE 2 H373

>= 0.1% - < 0.25% Magnesium oxide
CAS: 1309-48-4


A.4.1/1 Resp. Sens. 1 H334


A.8/3 STOT SE 3 H335


A.9/1 STOT RE 1 H372

>= 0.1% - < 0.25% Crystalline Silica (Quartz SiO2)
CAS: 14808-60-7, EC: 238-878-4


A.3/2A Eye Irrit. 2A H319


A.6/1A Carc. 1A H350


A.8/1 STOT SE 1 H370


A.8/3 STOT SE 3 H335

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:
Immediately take off all contaminated clothing.
Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:
Do not induce vomiting. Obtain a medical examination.

In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed
None

Indication of immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
No particular treatment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
In case of fire: Use Alcohol foam, carbon dioxide (CO2), dry chemical, water spray/water fog to extinguish.

Unsuitable extinguishing media
None in particular.

Specific hazards arising from the chemical
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Do not use on extensive surface areas in premises where there are occupants.

Don't use empty container before they have been cleaned.

Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Storage temperature:

Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

aluminium powder (stabilised) - CAS: 7429-90-5

- OEL Type: ACGIH - TWA(8h): 1 mg/m3 - Notes: (R), A4 - Pneumoconiosis, LRT irr, neurotoxicity
- OEL Type: National - TWA(8h): 10 mg/m3 - Notes: France (INRS) ; métal
- OEL Type: National - TWA(8h): 5 mg/m3 - Notes: France (INRS) ; pulvérulent

Toluene - CAS: 108-88-3

- OEL Type: ACGIH - TWA(8h): 20 ppm
- OEL Type: NIOSH REL - TWA: 375 mg/m3, 100 ppm
- OEL Type: ST - TWA: 560 mg/m3, 150 ppm
- OEL Type: TWA - TWA: 200 ppm

- OEL Type: EU - TWA(8h): 192 mg/m3, 50 ppm - STEL: 384 mg/m3, 100 ppm - Notes: Skin

tetramethylthiuram disulphide - CAS: 137-26-8
- OEL Type: ACGIH - TWA: 5 mg/m3 - Notes: Inhalable fraction and vapor
- OEL Type: NIOSH - TWA: 0.05 mg/m3
- OEL Type: OSHA PEL - TWA: 5 mg/m3

Magnesium oxide - CAS: 1309-48-4
- OEL Type: OSHA PEL - TWA: 15 mg/m3
- OEL Type: TWA - TWA: 15 mg/m3
- OEL Type: ACGIH - TWA: 10 mg/m3
- OEL Type: IDLH - TWA: 750 mg/m3

Crystalline Silica (Quartz SiO2) - CAS: 14808-60-7
- OEL Type: OSHA PEL - TWA: 0.05 mg/m3
- OEL Type: TWA - TWA: 0.1 mg/m3 - Notes: respirable fraction
- OEL Type: ACGIH - TWA: 0.025 mg/m3
- OEL Type: IDLH - TWA: 50 mg/m3 - Notes: respirable dust

DNEL Exposure Limit Values

aluminium powder (stabilised) - CAS: 7429-90-5

Worker Professional: 3.72 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 3.95 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 3.72 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

aluminium powder (stabilised) - CAS: 7429-90-5

Target: Fresh Water - Value: 0.0749 mg/l

Target: Sewage treatment plant - Value: 20 mg/l

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	White	--	--
Odour:	Polysulfide Odor	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--

Initial boiling point and boiling range:	N.A.	--	--
Flash Point (°F):	200	--	--
Flash point (°C):	93	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	**Value**	**Method:**	**Notes**
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

None

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

CS-3209 Part A Class B

Acute toxicity

Not classified

Based on available data, the classification criteria are not met

Skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
Serious eye damage/irritation
Not classified
Based on available data, the classification criteria are not met
Respiratory or skin sensitisation
The product is classified: Resp. Sens. 1 H334;Skin Sens. 1 H317
Germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
Carcinogenicity
The product is classified: Carc. 1A H350
Reproductive toxicity
The product is classified: Repr. 2 H361
STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
STOT-repeated exposure
The product is classified: STOT RE 2 H373
Aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Aliphatic polysulfide polymer - CAS: 68611-50-7
Acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
aluminium powder (stabilised) - CAS: 7429-90-5
Acute toxicity:
Test: LC50 - Route: Inhalation Dust - Species: Rat > 5 mg/l - Duration: 4h
Toluene - CAS: 108-88-3
Acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat (Male, female) 28.1 mg/l - Notes: The component/mixture is moderately toxic after short term inhalation.
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Notes: The component/mixture is moderately toxic after single contact with skin.
Test: LD50 - Route: Oral - Species: Rat (male) 5580 mg/kg
Bisphenol A - epoxy resins, number average MW >700-<1100 - CAS: 67924-34-9
Acute toxicity:
Test: LD50 - Route: Skin - Species: Rat (Male, female) > 2000 mg/kg
Test: LD50 - Route: Oral - Species: Rat (female) > 2000 mg/kg
tetramethylthiuram disulphide - CAS: 137-26-8
Acute toxicity:
Test: LD50 - Route: Skin - Species: Rat > 1000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat 3.46 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat 1800 mg/kg
Crystalline Silica (Quartz SiO2) - CAS: 14808-60-7
Acute toxicity:
Test: LD50 - Route: Oral 500 mg/kg

Substance(s) listed on the NTP report on Carcinogens:
Crystalline Silica (Quartz SiO2).
Substance(s) listed on the IARC Monographs:

Toluene - Group 3
tetramethylthiuram disulphide - Group 3
Crystalline Silica (Quartz SiO2) - Group 1.

Substance(s) listed as OSHA Carcinogen(s):
Crystalline Silica (Quartz SiO2).

Substance(s) listed as NIOSH Carcinogen(s):
Crystalline Silica (Quartz SiO2).

12. ECOLOGICAL INFORMATION

Ecotoxicity
Adopt good working practices, so that the product is not released into the environment.

CS-3209 Part A Class B
The product is classified: Aquatic Chronic 3 - H412

Persistence and degradability
N.A.

Bioaccumulative potential
N.A.

Mobility in soil
N.A.

Other adverse effects
No harmful effects expected.

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN number
Not classified as dangerous in the meaning of ADR, IATA and IMDG transport regulations.

UN proper shipping name
N.A.

Transport hazard class(es)
N.A.

Packing group
N.A.

Environmental hazards
ADR-Enviromental Pollutant: No
IMDG-Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)
N.A.

Special precautions
N.A.

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act
TSCA inventory: All the components of this product are listed as active on or are exempt from the TSCA Inventory..

TSCA sections for substances listed in section 3:
Aliphatic polysulfide polymer is listed in TSCA Section 8b

aluminium powder (stabilised) is listed in TSCA Section 8b
Toluene is listed in TSCA Section 8a - CAIR, Section 8d HSDR, Section 8b
Bisphenol A - epoxy resins, number average MW >700-<1100 is listed in TSCA Section 8b
tetramethylthiuram disulphide is listed in TSCA Section 8b
Magnesium oxide is listed in TSCA Section 8b
Crystalline Silica (Quartz SiO2) is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act
Section 302 Extremely Hazardous Substances: no substances listed.
Section 304 Hazardous substances: Toluene, tetramethylthiuram disulphide.
Section 313 Toxic chemical list: aluminium powder (stabilised), Toluene, tetramethylthiuram disulphide.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
Substance(s) listed under CERCLA: Toluene - Reportable quantity: 1000 pounds
tetramethylthiuram disulphide - Reportable quantity: 10 pounds.
Reportable quantity for mixture: 5380.967726 pounds.

CAA - Clean Air Act
CAA listed substances:
Toluene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON.

CWA - Clean Water Act
CWA listed substances:
aluminium powder (stabilised) is listed in CWA Section 304
Toluene is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants
tetramethylthiuram disulphide is listed in CWA Section 304.

USA - State specific regulations

California Proposition 65
Substance(s) listed under California Proposition 65:
Toluene - Listed as reproductive toxicant.

Massachusetts Right to know
Substance(s) listed under Massachusetts Right to know:
aluminium powder (stabilised)
Toluene
tetramethylthiuram disulphide
Magnesium oxide
Crystalline Silica (Quartz SiO2).

New Jersey Right to know
Substance(s) listed under New Jersey Right to know:
aluminium powder (stabilised)
Toluene
tetramethylthiuram disulphide
Magnesium oxide
Crystalline Silica (Quartz SiO2).

Pennsylvania Right to know
Substance(s) listed under Pennsylvania Right to know:
aluminium powder (stabilised)
Toluene
tetramethylthiuram disulphide
Magnesium oxide
Crystalline Silica (Quartz SiO2).

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H412 Harmful to aquatic life with long lasting effects.
H261 In contact with water releases flammable gases.
H228 Flammable solid.
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H401 Toxic to aquatic life.
H317 May cause an allergic skin reaction.
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure.
H350 May cause cancer.
H370 Causes damage to organs.

According to TSCA section 3(2)(B)(i) : a hydrated form of a chemical substance is considered a mixture of the corresponding anhydrous form and water.

Disclaimer:
The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.
This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.

ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
TOTAL VOC'S (TVOC) / NONEXEMPT VOC'S (CVOC): Using California South Coast Air Quality Management District (SCAQMD) Rule 1143.	
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average

Safety Data Sheet date: 1/31/2025, version 1