

**Safety Data Sheet (HazCom 2012)  
CS-3204 Part A Class A - CS3204AA**

Safety Data Sheet date: 12/4/2024, version 1

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**1. IDENTIFICATION**

**Product identifier**

Mixture identification:  
Trade name: CS-3204 Part A Class A  
Other means of identification:  
SDS code: CS3204AA

**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 91331 - 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)

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**2. HAZARD(S) IDENTIFICATION**

**Classification of the chemical**

-  Warning, Flam. Liq. 3, Flammable liquid and vapour.
-  Warning, Skin Sens. 1, May cause an allergic skin reaction.
-  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 Acute 3, Harmful to aquatic life.

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

**Label elements**

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

**Safety Data Sheet (HazCom 2012)**  
**CS-3204 Part A Class A - CS3204AA**

H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H402 Harmful to aquatic life.  
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.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
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.  
P302+P352 IF ON SKIN: Wash with plenty of water/...  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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.  
P363 Wash contaminated clothing before reuse.  
P370+P378 In case of fire: Use Alcohol foam, carbon dioxide (CO<sub>2</sub>), 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.

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### 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

>= 7% - < 10% Toluene  
CAS: 108-88-3









B.6/2 Flam. Liq. 2 H225

**Safety Data Sheet (HazCom 2012)**  
**CS-3204 Part A Class A - CS3204AA**

-  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

>= 0.1% - < 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

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#### 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:

**Safety Data Sheet (HazCom 2012)**  
**CS-3204 Part A Class A - CS3204AA**

No particular treatment.

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:**

In case of fire: Use Alcohol foam, carbon dioxide (CO<sub>2</sub>), 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.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment, and emergency procedures**

Wear personal protection equipment.

Remove all sources of ignition.

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.

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**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:

Contaminated 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.

Avoid accumulating electrostatic charge.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

Storage temperature:

**Safety Data Sheet (HazCom 2012)**  
**CS-3204 Part A Class A - CS3204AA**

Store at ambient temperature.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Toluene - CAS: 108-88-3

- OEL Type: ACGIH - TWA: 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

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

**DNEL Exposure Limit Values**

N.A.

**PNEC Exposure Limit Values**

N.A.

**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:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	8.5	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash Point (°F):	90	--	--
Flash point (°C):	32.2	--	--
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.	--	--

**Safety Data Sheet (HazCom 2012)**  
**CS-3204 Part A Class A - CS3204AA**

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.	--	--

TOTAL VOC'S (TVOC): 218 g/l

**10. STABILITY AND REACTIVITY**

**Reactivity**

It may generate dangerous reactions (See subsections below)

**Chemical stability**

It may generate dangerous reactions (See subsections below)

**Possibility of hazardous reactions**

None

**Conditions to avoid**

Avoid accumulating electrostatic charge.

**Incompatible materials**

Avoid contact with combustible materials. The product could catch fire.

**Hazardous decomposition products**

None.

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

Toxicological information of the product:

CS-3204 Part A Class A

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: Skin Sens. 1 H317

Germ cell mutagenicity

**Safety Data Sheet (HazCom 2012)**  
**CS-3204 Part A Class A - CS3204AA**

Not classified  
Based on available data, the classification criteria are not met

**Carcinogenicity**  
Not classified  
Based on available data, the classification criteria are not met

**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

**Toluene - CAS: 108-88-3**  
**Acute toxicity:**  
Test: LC50 - Route: Inhalation - Species: Rat (male) 6700 ppm - Duration: 4h - Notes: The component/mixture is moderately toxic after short term inhalation.  
Test: LD50 - Route: Skin - Species: Rat (male) 1700 mg/kg - Notes: The component/mixture is moderately toxic after single contact with skin.

**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

**Substance(s) listed on the NTP report on Carcinogens:**

None.

**Substance(s) listed on the IARC Monographs:**

None.

**Substance(s) listed as OSHA Carcinogen(s):**

None.

**Substance(s) listed as NIOSH Carcinogen(s):**

None.

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

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

CS-3204 Part A Class A

The product is classified: Aquatic Acute 3 - H402; Aquatic Chronic 3 - H412

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

**Safety Data Sheet (HazCom 2012)**  
**CS-3204 Part A Class A - CS3204AA**

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

ADR-UN Number: 1133  
 DOT number: UN1133  
 IATA-UN Number: 1133  
 IMDG-UN Number: 1133

UN proper shipping name

ADR-Shipping Name: ADHESIVES  
 DOT-Shipping Name: Adhesives, containing a flammable liquid  
 IATA-Shipping Name: ADHESIVES  
 IMDG-Shipping Name: ADHESIVES

Transport hazard class(es)

ADR-Class: 3  
 DOT Hazard Class: 3  
 ADR - Hazard identification number: 30  
 IATA-Class: 3  
 IATA-Label: 3  
 IMDG-Class: 3

Packing group

ADR-Packing Group: III  
 DOT Packing group: III  
 IATA-Packing group: III  
 IMDG-Packing group: III

Environmental hazards

ADR-Environmental 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

DOT Special provisions: B1, B52, IB3, T2, TP1  
 ADR-Subsidiary hazards: -  
 ADR-S.P.: -  
 ADR-Transport category (Tunnel restriction code): 3 (D/E)  
 IATA-Passenger Aircraft: 355  
 IATA-Subsidiary hazards: -  
 IATA-Cargo Aircraft: 366  
 IATA-S.P.: A3  
 IATA-ERG: 3L  
 IMDG-EmS: F-E , S-D  
 IMDG-Subsidiary hazards: -



**Safety Data Sheet (HazCom 2012)**  
**CS-3204 Part A Class A - CS3204AA**

IMDG-Stowage and handling: Category A  
IMDG-Segregation: -

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**15. REGULATORY INFORMATION**

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

List of substances included in the TSCA inventory: Aliphatic polysulfide polymer, Toluene.

List of substances not included in the TSCA inventory: tetramethylthiuram disulphide.

TSCA sections for substances listed in section 3:

Aliphatic polysulfide polymer is listed in TSCA Section 8b

Toluene is listed in TSCA Section 8a - CAIR, Section 8d HSDR, Section 8b.

**SARA - Superfund Amendments and Reauthorization Act**

Section 302 Extremely Hazardous Substances: no substances listed.

Section 304 Hazardous substances: Toluene.

Section 313 Toxic chemical list: Toluene.

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

Substance(s) listed under CERCLA: Toluene - Reportable quantity: 1000 pounds.

Reportable quantity for mixture: 13623.9782 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:

Toluene is listed in CWA Section 304, Section 307, Section 311, CWA Priority Pollutants.

**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:

No substances listed.

**New Jersey Right to know**

Substance(s) listed under New Jersey Right to know:

Toluene.

**Pennsylvania Right to know**

Substance(s) listed under Pennsylvania Right to know:

Toluene.

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:

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**16. OTHER INFORMATION**

Full text of phrases referred to in Section 3:

H412 Harmful to aquatic life with long lasting effects.

H225 Highly flammable liquid and vapour.

**Safety Data Sheet (HazCom 2012)**  
**CS-3204 Part A Class A - CS3204AA**

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.  
H302 Harmful if swallowed.  
H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction.

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) /

**Safety Data Sheet (HazCom 2012)**  
**CS-3204 Part A Class A - CS3204AA**

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: 12/4/2024, version 1