

Safety Data Sheet (HazCom 2012)
CS-3201 Part B Class B - CS3201BB

Safety Data Sheet date: 4/18/2025, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: CS-3201 Part B Class B

Other means of identification:

SDS code: CS3201BB

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)

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Warning, Flam. Liq. 4, Combustible liquid.



Warning, Acute Tox. 4, Harmful if swallowed.



Warning, Acute Tox. 4, Harmful in contact with skin.



Warning, Acute Tox. 4, Harmful if inhaled.



Danger, Carc. 1B, May cause cancer.



Danger, Repr. 1A, May damage fertility or the unborn child.



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



Warning, Aquatic Acute 1, Very toxic to aquatic life.



Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Label elements

Hazard pictograms:

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Danger

Hazard statements:

H227 Combustible liquid.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic 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.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/clothing and eye/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P330 Rinse mouth.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use Alcohol foam, carbon dioxide (CO₂), dry chemical, water spray/water fog to extinguish.
P391 Collect spillage.
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:

>= 70% - < 80% Lead dioxide

CAS: 1309-60-0

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-  B.13/3 Ox. Liq. 3 H272
-  A.1/4/Dermal Acute Tox. 4 H312
-  A.1/4/Inhal Acute Tox. 4 H332
-  A.1/4/Oral Acute Tox. 4 H302
-  A.6/1B Carc. 1B H350
-  A.7/1A Repr. 1A H360
-  A.9/2 STOT RE 2 H373
-  US-HAE/A1 Aquatic Acute 1 H400
-  US-HAE/C1 Aquatic Chronic 1 H410

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.
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.
Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.
In case of inhalation, consult a doctor immediately and show the packing or label.

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

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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.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
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.
Use localized ventilation system.
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.
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
Lead dioxide - CAS: 1309-60-0
- OEL Type: ACGIH - TWA: 0.05 mg/m3 - Notes: UNITED STATES
- OEL Type: NIOSH - TWA: 0.05 mg/m3 - Notes: UNITED STATES
- OEL Type: OSHA PEL - TWA: 0.05 mg/m3 - Notes: UNITED STATES
DNEL Exposure Limit Values
N.A.
PNEC Exposure Limit Values

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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:	Brown	--	--
Odour:	Negligible Oily 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
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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:

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Acute toxicity

The product is classified: Acute Tox. 4 H302;Acute Tox. 4 H312;Acute Tox. 4 H332

ATEmix - Oral 685.174 mg/kg bw

ATEmix - Dermal 1507.38 mg/kg bw

ATEmix - Inhalation (Vapours) 15.0738 mg/l

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

Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

The product is classified: Carc. 1B H350

Reproductive toxicity

The product is classified: Repr. 1A H360

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:

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N.A.
 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.

12. ECOLOGICAL INFORMATION

Ecotoxicity
 Adopt good working practices, so that the product is not released into the environment.
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 The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410
 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
 ADR-UN Number: 3082
 DOT number: UN3082
 IATA-UN Number: 3082
 IMDG-UN Number: 3082
 UN proper shipping name
 ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lead dioxide)
 DOT-Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Lead dioxide)
 IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lead dioxide)
 IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lead dioxide)
 Transport hazard class(es)
 ADR-Class: 9
 DOT Hazard Class: 9
 ADR - Hazard identification number: 90
 IATA-Class: 9
 IATA-Label: 9
 IMDG-Class: 9

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Packing group
 ADR-Packing Group: III
 DOT Packing group: III
 IATA-Packing group: III
 IMDG-Packing group: III
 Environmental hazards
 ADR-Environmental Pollutant: Yes
 IMDG-Marine pollutant: Yes
 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)
 N.A.

Special precautions
 DOT Special provisions: 8, 146, 173, 335, 441, IB3, T4, TP1, TP29
 ADR-Subsidiary hazards: -
 ADR-S.P.: 274 335 375 601
 ADR-Transport category (Tunnel restriction code): 3 (-)
 IATA-Passenger Aircraft: 964
 IATA-Subsidiary hazards: -
 IATA-Cargo Aircraft: 964
 IATA-S.P.: A97 A158 A197 A215
 IATA-ERG: 9L
 IMDG-EmS: F-A , S-F
 IMDG-Subsidiary hazards: -
 IMDG-Stowage and handling: Category A
 IMDG-Segregation: -
 Q.L.: 5L
 Q.E.: E1

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:
 Lead dioxide is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 Extremely Hazardous Substances: no substances listed.
 Section 304 Hazardous substances: no substances listed.
 Section 313 Toxic chemical list: no substances listed.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

No substances listed.

CAA - Clean Air Act

CAA listed substances:
 None.

CWA - Clean Water Act

CWA listed substances:
 None.

USA - State specific regulations

California Proposition 65

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Substance(s) listed under California Proposition 65:
 None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:
 Lead dioxide.

New Jersey Right to know

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

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:
 No substances listed.

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:

- H272 May intensify fire; oxidiser.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H302 Harmful if swallowed.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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.

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| 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). |

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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

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