Safety Data Sheet (HazCom 2012)
CS-3213 Part A Class B-12/B-48/B-96 - CS3213AB12B48B96

Safety Data Sheet date: 5/6/2025, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: CS-3213 Part A Class B-12/B-48/B-96

Other means of identification:

SDS code: CS3213AB12B48B96

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. 3, Flammable liquid and vapour.

Warning, Skin Irrit. 2, Causes skin irritation.

Warning, Eye Irrit. 2A, Causes serious eye irritation.

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.

Label elements

Hazard pictograms:

Warning

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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.

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.
P264 Wash hands thoroughly after handling.
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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
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.
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:

>= 50% - < 60% Aliphatic polysulfide polymer

CAS: 68611-50-7
US-HAE/A3 Aquatic Acute 3 H402

>= 10% - < 12.5% 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

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 opthalmologist immediately.
Protect uninjured eye.

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:

Carbon oxides.
Halogenated compounds.
Nitrogen oxides.
Sulfur oxides.
Trace hydrogen sulfide.
Metal oxides.
Formaldehyde.

Smoke and unidentified organic compounds.

Explosive properties: N.A.
Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus (pressure demand, MSHA/NIOSH approved or equivalent) and full protective gear.
Move undamaged containers from immediate hazard area if it can be done safely, or use water spray jet to protect personnel and to cool endangered containers.
Exposure to decomposition products may be a health hazard. If decomposition products released in a fire are inhaled, symptoms may be delayed. Exposed persons may need to be kept under medical surveillance for at least 48 hours.
Vapors can travel back to a source of ignition and flaskback!
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

For containment:
Contain spillage with commercially available chemical berms and absorbant pads.
For cleaning up:
Practice good industrial hygiene when handling this product. Use appropriate personal protective equipment. Evacuate spill area and ventilate properly.
Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways.

7. HANDLING AND STORAGE

Precautions for safe handling

Always use appropriate personal protective equipment (PPE). Avoid all contact with eyes, mouth, skin, and clothing. Avoid breathing vapors and mists.
Advice on general occupational hygiene:
Practice good industrial hygiene when handling this product.
Do not eat, drink or smoke when using this product.

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:
Keep away from heat, sparks, and flame. Keep container closed when not in use. Store in a cool, dry, well-ventilated area at a temperature between 50 and 95 degrees F (10 and 35 degrees C). Do not store outside in direct sunlight.
Keep container closed when not in use.
Avoid contamination of the product and do not mix with other chemicals.
Avoid contamination of the unused product by foreign materials including tools and parts of the spraying equipment if used.
Storage temperature:
Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

Appropriate engineering controls:

Use this product outdoors with good ventilation. If it is used indoors, local exaust ventilation is recommended to control any air contaminants to within their TLVs during the use of this product.

Individual protection measures

Eye protection:

Wear safety glasses with side shields (or goggles) and a face shield.

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:

Always follow all local, state, and federal laws regarding the use of respirators.
A NIOSH/MSHA approved air purifying respirator with an organic vapor cartidge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Always follow all local, state, and federal laws and regulations regarding the use of respirators.

Thermal Hazards:

Keep away from heat and sources of ignition

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Physical state:	Paste	--	--
Colour:	White	--	--
Odour:	Polysulfide-like	--	--
Odour threshold:	N.A.	--	--
pH:	8.5	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and	350 F	--	--

boiling range:			
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:	NIL	--	--
Vapour density:	NIL	--	--
Relative density:	1.52 (@ 20 °C / 68 °F)	--	--
Solubility in water:	Negligible	--	--
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.	--	--

NONEXEMPT VOC'S (CVOC): 218 g/l

10. STABILITY AND REACTIVITY

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

Stable at normal pressures and temperatures.

Possibility of hazardous reactions

Hazardous polymerisation will not occur under normal conditions.
Combustion may release hazardous decomposition products.

Conditions to avoid

Eliminate all possible sources of ignition (sparks or flames).
Heat. Limit exposure to air and light. Contamination.

Incompatible materials

Strong acids, strong bases, strong oxidizers, strong reducing agents.

Hazardous decomposition products

CO, CO2
Halogenated compounds.
Sulfur oxides.
Nitrogen oxides.
Metallic oxides.
Formaldehyde
Trace hydrogen sulfide.

Smoke and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

CS-3213 Part A Class B-12/B-48/B-96

Acute toxicity

Not classified

Based on available data, the classification criteria are not met

Skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

Serious eye damage/irritation

The product is classified: Eye Irrit. 2A H319

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

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

Adverse health effects

Exposure to component solvent vapors at concentrations in excess of the stated Occupational Exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver, and central nervous system.

Systems and signs of overexposure include headache, dizziness, fatigue, muscular weakness, drowsiness, reduced fetal weight, increase in fetal deathsl, skeletal malformations, and in extreme cases loss of conciousness.

Repeated or prolonged contact with the preparation may cause defatting of the skin resulting in non-allergic dematitis and absorption through the skin.

The liquid splashed in the eyes causes serious eye irritation and damage.

Irritating to mouth, throat, and stomach. Ingestion causes reduced fetal weight, increased fetal deaths, and skeletal malformations.

Formaldehyde is released during curing.

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, 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

Substance(s) listed on the NTP report on Carcinogens:
None.
Substance(s) listed on the IARC Monographs:
Toluene - Group 3.
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.
CS-3213 Part A Class B-12/B-48/B-96
The product is classified: Aquatic Acute 3 - H402
Aliphatic polysulfide polymer - CAS: 68611-50-7
a) Aquatic acute toxicity:
Endpoint: LL50
- Species: Oryzias latipes > 100 mg/l - Duration h: 96
Endpoint: EL50
- Species: Daphnia Magna < 100 mg/l - Duration h: 48
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Crustacea > 1 mg/l
e) Plant toxicity:
Endpoint: ErL50 - Species: Algae > 100 mg/l - Duration h: 72
Toluene - CAS: 108-88-3
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Oncorhynchus mykiss 5.5 mg/l - Duration h: 96
Endpoint: EC50 - Species: Water flea 3.78 mg/l - Duration h: 48
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Oncorhynchus mykiss 1.39 mg/l - Duration h: 960
Endpoint: NOEC - Species: Water flea 0.74 mg/l - Duration h: 168
c) Bacteria toxicity:
Endpoint: EC50 - Species: bacteria 84 mg/l - Duration h: 24
Persistence and degradability
Toluene - CAS: 108-88-3
Biodegradability: Biodegradability rate - Test: Aerobic - Duration: 20 days - %: 86 - Notes: Readily biodegradable
Bioaccumulative potential
Toluene - CAS: 108-88-3
Potentially bioaccumulative. - Test: BCF - Bioconcentrantion factor 90
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.
Additional disposal information:

Disposal should be in accordance with applicable regional, national and local laws and regulations. Please consult Technical Data Sheet for details.

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

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
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: 9322.270905 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:
Toluene.

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:

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H402 Harmful to aquatic life.
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.
H412 Harmful 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.

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: 5/6/2025, version 1