

Safety Data Sheet (HazCom 2012)
CS-2727 Part B - CS2727B

Safety Data Sheet date: 1/14/2025, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: CS-2727 Part B

Other means of identification:

SDS code: CS2727B

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



Danger, Skin Corr. 1B, Causes severe skin burns and eye damage.



Danger, Eye Dam. 1, Causes serious eye damage.



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



Danger, Carc. 1B, May cause cancer.



Warning, STOT SE 3, May cause respiratory irritation.



Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

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H335 May cause respiratory irritation.

H411 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.

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.

P271 Use only outdoors or in a well-ventilated area.

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.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P310 Immediately call a POISON CENTER/doctor/...

P312 Call a POISON CENTER/doctor/... if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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% TRIETHYLENETETRAMINE

CAS: 112-24-3



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



A.1/4/Dermal Acute Tox. 4 H312



A.2/1B Skin Corr. 1B H314





A.3/1 Eye Dam. 1 H318



A.4.2/1 Skin Sens. 1 H317

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-  A.8/3 STOT SE 3 H335
-  US-HAE/C2 Aquatic Chronic 2 H411

>= 0.25% - < 0.3% Formaldehyde
 CAS: 50-00-0

-  A.8/1 STOT SE 1 H370

B.6/4 Flam. Liq. 4 H227

-  A.1/3/Oral Acute Tox. 3 H301

-  A.1/3/Dermal Acute Tox. 3 H311

-  A.1/3/Inhal Acute Tox. 3 H331

-  A.2/1A Skin Corr. 1A H314

-  A.4.2/1 Skin Sens. 1 H317

-  A.6/1B Carc. 1B H350

-  A.8/3 STOT SE 3 H335

US-HAE/A3 Aquatic Acute 3 H402

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.
 OBTAIN IMMEDIATE MEDICAL ATTENTION.
 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.

In case of Inhalation:

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.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

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.

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 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

TRIETHYLENETETRAMINE - CAS: 112-24-3

- OEL Type: ST - TWA: 10 ppm

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- OEL Type: TWA - TWA: 6 mg/m³
 Formaldehyde - CAS: 50-00-0
 - OEL Type: ACGIH - TWA: 0.3 ppm - Notes: Italy, Portugal, USA ACGIH
 - OEL Type: OSHA PEL - TWA: 0.75 ppm - Notes: USA, TWA
 - OEL Type: OSHA PEL - TWA: 2 ppm - Notes: USA, STEL
 - OEL Type: IDLH - TWA: 20 mg/m³ - Notes: USA
 - OEL Type: EU - TWA(8h): 0.37 mg/m³, 0.3 ppm - STEL: 0.74 mg/m³, 0.6 ppm -
 Notes: Dermal sensitisation
 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 respiratory protection where ventilation is insufficient or exposure is prolonged.
 Use adequate protective respiratory equipment.
 Thermal Hazards:
 None

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Off-white	--	--
Odour:	Slight Ammonia 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.	--	--

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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:

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Acute toxicity

Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral 3432 mg/kg bw

ATEmix - Dermal 2930 mg/kg bw

Skin corrosion/irritation

The product is classified: Skin Corr. 1B H314

Serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

Respiratory or skin sensitisation

The product is classified: 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. 1B H350

Reproductive toxicity

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Not classified
Based on available data, the classification criteria are not met
STOT-single exposure
The product is classified: STOT SE 3 H335
STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
Aspiration hazard
Not classified
Based on available data, the classification criteria are not met
Toxicological information of the main substances found in the product:
TRIETHYLENETETRAMINE - CAS: 112-24-3
Acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 1716 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 1465 mg/kg
Formaldehyde - CAS: 50-00-0
Acute toxicity:
Test: ATE - Route: Inhalation (dust, mist) = 0.5 mg/l - Duration: 4h
Test: ATE - Route: Inhalation Gas = 700 ppmV - Duration: 4h
Test: ATE - Route: Oral = 100 mg/kg
Test: ATE - Route: Skin = 300 mg/kg
Test: ATE - Route: Inhalation Vapour = 3 mg/l - Duration: 4h

Substance(s) listed on the NTP report on Carcinogens:
Formaldehyde.
Substance(s) listed on the IARC Monographs:
Formaldehyde - Group 1.
Substance(s) listed as OSHA Carcinogen(s):
Formaldehyde.
Substance(s) listed as NIOSH Carcinogen(s):
Formaldehyde.

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 Chronic 2 - H411
Formaldehyde - CAS: 50-00-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 41 mg/l - Duration h: 96
Endpoint: EC50 - Species: Crustacea = 14.7 mg/l - Duration h: 24 - Notes: Daphnia
magma
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.

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14. TRANSPORT INFORMATION



UN number
 ADR-UN Number: 1760
 DOT number: UN1760
 IATA-UN Number: 1760
 IMDG-UN Number: 1760

UN proper shipping name
 ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (TRIETHYLENETETRAMINE)
 DOT-Shipping Name: Corrosive liquids, n.o.s.(TRIETHYLENETETRAMINE)
 IATA-Shipping Name: CORROSIVE LIQUID, N.O.S. (TRIETHYLENETETRAMINE)
 IMDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (TRIETHYLENETETRAMINE)

Transport hazard class(es)
 ADR-Class: 8
 DOT Hazard Class: 8
 ADR - Hazard identification number: 80
 IATA-Class: 8
 IATA-Label: 8
 IMDG-Class: 8

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

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: B2, IB2, T11, TP2, TP27
 ADR-Subsidiary hazards: -
 ADR-S.P.: 274
 ADR-Transport category (Tunnel restriction code): 2 (E)
 IATA-Passenger Aircraft: 851
 IATA-Subsidiary hazards: -
 IATA-Cargo Aircraft: 855
 IATA-S.P.: A3 A803
 IATA-ERG: 8L
 IMDG-EmS: F-A , S-B
 IMDG-Subsidiary hazards: -
 IMDG-Stowage and handling: Category B SW2
 IMDG-Segregation: -
 Q.L.: 1L
 Q.L.: 1L
 Q.E.: E2

15. REGULATORY INFORMATION

USA - Federal regulations

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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:

TRIETHYLENETETRAMINE is listed in TSCA Section 8b

Formaldehyde is listed in TSCA Section 8, Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 Extremely Hazardous Substances: Formaldehyde.

Section 304 Hazardous substances: Formaldehyde.

Section 313 Toxic chemical list: Formaldehyde.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: Formaldehyde - Reportable quantity: 100 pounds.

Reportable quantity for mixture: 37735.84906 pounds.

CAA - Clean Air Act

CAA listed substances:

Formaldehyde is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON, Section 112(r).

CWA - Clean Water Act

CWA listed substances:

Formaldehyde is listed in CWA Section 311.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

Formaldehyde - Listed as carcinogen.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

TRIETHYLENETETRAMINE

Formaldehyde.

New Jersey Right to know

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

TRIETHYLENETETRAMINE

Formaldehyde.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

TRIETHYLENETETRAMINE

Formaldehyde.

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:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H411 Toxic to aquatic life with long lasting effects.
 H370 Causes damage to organs.
 H227 Combustible liquid.
 H301 Toxic if swallowed.
 H311 Toxic in contact with skin.
 H331 Toxic if inhaled.
 H350 May cause cancer.
 H402 Harmful to aquatic life.

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
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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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