

Safety Data Sheet
CS 135 Class B Part B - CS135BB

Safety Data Sheet date: 11/8/2024, version 2

1. IDENTIFICATION

Product identifier

Mixture identification:
Trade name: CS 135 Class B Part B
Other means of identification:
SDS code: CS135BB

Recommended use of the chemical and restrictions on use

Recommended use:
Sealant
Industrial uses
Restrictions on use:
No uses advised against are identified.

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, Acute Tox. 4, Harmful if swallowed.
-  Warning, Skin Irrit. 2, Causes skin irritation.
-  Warning, Eye Irrit. 2A, Causes serious eye irritation.
-  Warning, Skin Sens. 1, May cause an allergic skin reaction.
- Lact., May cause harm to breast-fed children.
-  Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Label elements

Hazard pictograms:



Warning

Hazard statements:

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H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H362 May cause harm to breast-fed children.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P201 Obtain special instructions before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P263 Avoid contact during pregnancy/while nursing.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/clothing and eye/face protection.
P301+P312 IF SWALLOWED: Immediately call a POISON CENTER/doctor/... if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water/...
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.
P330 Rinse mouth.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash 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.
P363 Wash contaminated clothing before reuse.
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:

>= 40% - < 50% manganese dioxide

Index number: 025-001-00-3, CAS: 1313-13-9, EC: 215-202-6



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



A.2/2 Skin Irrit. 2 H315



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



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

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 A.9/2 STOT RE 2 H373

>= 1% - < 3% Zinc diethyldithiocarbamate
CAS: 14324-55-1

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

 A.2/2 Skin Irrit. 2 H315

 A.4.2/1 Skin Sens. 1 H317

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

A.7/Lact. Lact. H362

 A.9/2 STOT RE 2 H373

>= 1% - < 3% sodium hydroxide; caustic soda
Index number: 011-002-00-6, CAS: 1310-73-2, EC: 215-185-5

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

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:

Give nothing to eat or drink.

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:

Water.

Carbon dioxide (CO₂).

Unsuitable extinguishing media

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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.
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

Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
Storage temperature:
Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

sodium hydroxide; caustic soda - CAS: 1310-73-2
- OEL Type: ACGIH - STEL: Ceiling 2 mg/m³ - Notes: URT, eye, and skin irr
- OEL Type: National - TWA(8h): 2 mg/m³ - Notes: France. INRS ED 984, indicative limit
- OEL Type: TWA - TWA: 2 mg/m³

DNEL Exposure Limit Values

sodium hydroxide; caustic soda - CAS: 1310-73-2
Worker Industry: 1 mg/m³ - Consumer: 1 mg/m³ - Exposure: Human Inhalation -
Frequency: Long Term (repeated)

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: | Paste | -- | -- |
| Colour: | Black | -- | -- |
| Odour: | N.A. | -- | -- |
| Odour threshold: | N.A. | -- | -- |
| pH: | N.A. | -- | -- |
| Melting point / freezing point: | N.A. | -- | -- |
| Initial boiling point and boiling range: | N.A. | -- | -- |
| Flash Point (°F): | N.A. | -- | -- |
| Flash point (°C): | N.A. | -- | -- |
| 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: | 1.8 | -- | -- |
| 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: | 1,100 poise | -- | Poise |
| 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

ATEmix - Oral 1099,14 mg/kg bw

ATEmix - Inhalation (Vapours) 24,4553 mg/l

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

The product is classified: Skin Sens. 1 H317

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: Lact. H362

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:

manganese dioxide - CAS: 1313-13-9

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Acute toxicity:

Test: LD50 - Route: Inhalation - Species: Rat > 14900 mg/kg

Zinc diethyldithiocarbamate - CAS: 14324-55-1

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1960 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

sodium hydroxide; caustic soda - CAS: 1310-73-2

Acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit = 1350 mg/kg

Test: LD50 - Route: Oral - Species: Rabbit = 325 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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

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Not classified for environmental hazards

Based on available data, the classification criteria are not met

manganese dioxide - CAS: 1313-13-9

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1677.579 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 6062.3696 mg/l - Duration h: 96

Zinc diethyldithiocarbamate - CAS: 14324-55-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.23 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: LC50 - Species: Daphnia Magna = 0.24 mg/l - Duration h: 48 - Notes: OECD, 202

Endpoint: ErC50 - Species: Algae = 0.0475 mg/l - Duration h: 72 - Notes: pseudokirchneriella subcapitata, OECD 210

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 0.01 mg/l - Duration h: 264 - Notes: Danio rerio, OECD 210

Endpoint: NOEC - Species: Daphnia Magna = 0.0032 mg/l - Duration h: 504

sodium hydroxide; caustic soda - CAS: 1310-73-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 33 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish < 189 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 40.4 mg/l - Duration h: 48 - Notes: Ceriodaphnia dubia

Endpoint: LC50 - Species: Fish = 145 mg/l - Duration h: 24 - Notes: Poecilia reticulata

c) Bacteria toxicity:

Endpoint: EC50 - Species: bacteria = 22 mg/l - Duration h: 0.25 - Notes:

Photobacterium phosphoreum

Persistence and degradability

N.A.

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Bioaccumulative potential

Zinc diethyldithiocarbamate - CAS: 14324-55-1
 Log Pow - Test: Method: calculated 3.11
 sodium hydroxide; caustic soda - CAS: 1310-73-2
 Not bioaccumulative

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: UN3077
 DOT number: UN3077
 IATA-UN Number: UN3077
 IMDG-UN Number: UN3077

UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 DOT-Shipping Name: Environmentally hazardous substance, solid, n.o.s
 IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport hazard class(es)

ADR-Class: 9
 DOT Hazard Class: 9
 IATA-Class: 9
 IATA-Label: 9
 IMDG-Class: 9

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

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DOT Special provisions: 8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
ADR-Subsidiary hazards: -
ADR-S.P.: 8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
IATA-Passenger Aircraft: 956
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 956
IATA-S.P.: A97 A158 A179 A197 A215
IATA-ERG: 9L
IMDG-EmS: F-A , S-F
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A SW23
IMDG-Segregation: -
Q.L.: 5K
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:
manganese dioxide is listed in TSCA Section 8b
sodium hydroxide; caustic soda is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 Extremely Hazardous Substances: no substances listed.
Section 304 Hazardous substances: sodium hydroxide; caustic soda.
Section 313 Toxic chemical list: no substances listed.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: sodium hydroxide; caustic soda - Reportable quantity: 1000 pounds.
Reportable quantity for mixture: 96153.84615 pounds.

CAA - Clean Air Act

CAA listed substances:
None.

CWA - Clean Water Act

CWA listed substances:
sodium hydroxide; caustic soda is listed in CWA Section 311.

USA - State specific regulations

California Proposition 65

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

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:
sodium hydroxide; caustic soda.

New Jersey Right to know

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Substance(s) listed under New Jersey Right to know:
sodium hydroxide; caustic soda.
Pennsylvania Right to know
Substance(s) listed under Pennsylvania Right to know:
sodium hydroxide; caustic soda.

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.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H317 May cause an allergic skin reaction.
H362 May cause harm to breast-fed children.
H314 Causes severe skin burns and eye damage.

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.

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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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