

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

Safety Data Sheet date: 4/17/2025, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

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

Other means of identification:

SDS code: CS3213BC48C96

Recommended use of the chemical and restrictions on use

Recommended use:

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.



Danger, Acute Tox. 3, Toxic if swallowed.



Danger, Acute Tox. 2, Fatal if inhaled.



Warning, Skin Irrit. 2, Causes skin irritation.



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



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



Danger, Muta. 1B, May cause genetic defects.



Danger, Carc. 1B, May cause cancer.



Warning, STOT SE 3, May cause respiratory irritation.



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



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

Label elements

Hazard pictograms:

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96



Danger

Hazard statements:

- H227 Combustible liquid.
- H301 Toxic if swallowed.
- H330 Fatal if inhaled.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- 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 and all exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- 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.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- P302+P352 IF ON SKIN: Wash with plenty of water/...
- 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.
- P312 Call a POISON CENTER/doctor/... if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P320 Specific treatment is urgent (see supplementary instructions on this label)
- 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.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use CO₂, dry sand, dry chemical, alcohol-resistant foam, or water to extinguish.
- P391 Collect spillage.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- 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:

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

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:

>= 30% - < 40% Magnesium Chromate

CAS: 13423-61-5



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



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



A.1/2/Inhal Acute Tox. 2 H330



A.2/2 Skin Irrit. 2 H315



A.3/1 Eye Dam. 1 H318



A.4.2/1 Skin Sens. 1 H317



A.5/1B Muta. 1B H340



A.6/1B Carc. 1B H350



A.8/3 STOT SE 3 H335



US-HAE/C1 Aquatic Chronic 1 H410

>= 30% - < 40% Manganese dioxide

CAS: 1313-13-9



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.9/2 STOT RE 2 H373

4. FIRST-AID MEASURES

Description of necessary measures

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

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.
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 CO₂, dry sand, dry chemical, alcohol-resistant foam, or water 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.
Nitrogen oxides.
Sulfur oxides.
Manganese compounds.
Oxides / metal oxides
Toxic fumes.

Explosive properties:

Material supports combustion

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.
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.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

Provide adequate ventilation.
Use appropriate respiratory protection.
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.

Keep away from food, drink and feed.

Incompatible materials:

Keep away from strong acids, strong bases, strong oxidizers, and strong reducing agents.

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.

Storage temperature:

Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Magnesium Chromate - CAS: 13423-61-5

- OEL Type: TWA - TWA: 0.05 mg/m³

Manganese dioxide - CAS: 1313-13-9

- OEL Type: OSHA PEL - TWA: 5 mg/m³ - Notes: (as Mn)

- OEL Type: ACGIH - TWA: 0.02 mg/m³ - Notes: (as Mn) Respirable

fraction.

- OEL Type: ACGIH - TWA: 0.1 mg/m³ - Notes: (as Mn) Inhalable

fraction.

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 exhaust 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:

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

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 a NIOSH approved chemical/mechanical filter respirator designed to remove a combination of particulates and organic vapor if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air-supplied respirator. For respirator use observe OSHA regulations (29 CFR 1910.134) or use in accordance with applicable laws and regulations of your country or locality.

Thermal Hazards:

Keep away from heat and sources of ignition

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Black	--	--
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 °F (Method: TCC)	--	--
Flash point (°C):	93 °C (Method: TCC)	--	--
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:	Material supports combustion	--	--
Oxidizing properties:	N.A.	--	--

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

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): 0 g/l -- 0 %

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

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

Nitrogen oxides.

Metallic oxides.

Sulfur oxides.

Unidentified manganese compounds

Toxic fumes

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96

Acute toxicity

The product is classified: Acute Tox. 3 H301; Acute Tox. 2 H330

ATEmix - Oral 238.928 mg/kg bw

ATEmix - Dermal 3085.29 mg/kg bw

ATEmix - Inhalation (Vapours) 1.34908 mg/l

Skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

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

The product is classified: Muta. 1B H340

Carcinogenicity

The product is classified: Carc. 1B H350

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

STOT-single exposure

The product is classified: STOT SE 3 H335

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 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 deaths, skeletal malformations, and in extreme cases loss of consciousness.

Repeated or prolonged contact with the preparation may cause defatting of the skin resulting in non-allergic dermatitis 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.

Toxicological information of the main substances found in the product:

Magnesium Chromate - CAS: 13423-61-5

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 3478 mg/kg

Manganese dioxide - CAS: 1313-13-9

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat \geq 14900 mg/kg

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

Magnesium Chromate.

Substance(s) listed on the IARC Monographs:

Magnesium Chromate - Group 1.

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 B Class C-48 / C-96 / B-48 / B-96

The product is classified: 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.

Additional disposal information:

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

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: 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. (Magnesium Chromate)
 DOT-Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Magnesium Chromate)
 IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Magnesium Chromate)
 IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Magnesium Chromate)

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

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
 Most important toxic component: Magnesium Chromate

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
 DOT Labels: 6.1
 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

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

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:

Magnesium Chromate is listed in TSCA Section 8b

Manganese 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

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

Magnesium Chromate.

New Jersey Right to know

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

No substances listed.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Magnesium Chromate.

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:

H301 Toxic if swallowed.

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

H312 Harmful in contact with skin.
 H330 Fatal if inhaled.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H340 May cause genetic defects.
 H350 May cause cancer.
 H335 May cause respiratory irritation.
 H410 Very toxic to aquatic life with long lasting effects.
 H302 Harmful if swallowed.
 H332 Harmful if inhaled.
 H319 Causes serious eye irritation.
 H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

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.

Safety Data Sheet (HazCom 2012)

CS-3213 Part B Class C-48 / C-96 / B-48 / B-96 - CS3213BC48C96

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: 4/17/2025, version 1