

**Safety Data Sheet (HazCom 2012)**  
**CS-3600 - CS3600**

Safety Data Sheet date: 11/12/2024, version 1

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## 1. IDENTIFICATION

### Product identifier

Mixture identification:  
Trade name: CS-3600  
Other means of identification:  
SDS code: CS3600

### Recommended use of the chemical and restrictions on use

Recommended use:  
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)

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## 2. HAZARD(S) IDENTIFICATION

### Classification of the chemical

-  Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
-  Warning, Eye Irrit. 2A, Causes serious eye irritation.
-  Warning, STOT SE 3, May cause drowsiness or dizziness.

### Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
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.

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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.  
P280 Wear protective gloves/clothing and eye/face protection.  
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.  
P312 Call a POISON CENTER/doctor/... if you feel unwell.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 In case of fire: Use dry sand, chemical powder or alcohol-resistant foam for extinction.  
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:**

None

**Ingredient(s) with unknown acute toxicity:**

None.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 80% - < 90% Methyl ethyl ketone

CAS: 78-93-3



B.6/2 Flam. Liq. 2 H225



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



A.8/3 STOT SE 3 H336

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### 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. Obtain a medical examination.

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**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.

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:**

In case of fire: Use dry sand, chemical powder or alcohol-resistant foam for extinction.

**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.

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**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**

Wash with plenty of water.

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**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**

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.

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Incompatible materials:  
 None in particular.  
 Instructions as regards storage premises:  
 Cool and adequately ventilated.  
 Safety electric system.  
 Storage temperature:  
 Store at ambient temperature.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Methyl ethyl ketone - CAS: 78-93-3  
 - OEL Type: ACGIH - TWA: 200 ppm - Notes: ACGIH OEL TWA  
 - OEL Type: ACGIH - TWA: 300 ppm - Notes: ACGIH OEL STEL  
 - OEL Type: OSHA PEL - TWA: 200 ppm  
 - OEL Type: OSHA PEL - TWA: 590 mg/m3

**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 adequate protective respiratory equipment.

Thermal Hazards:

None

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Properties	Value	Method:	Notes
Physical state:	Liquid	--	68°F / 20°C
Colour:	Red	--	--
Odour:	Ketone	--	--
Odour threshold:	N.A.	--	--
pH:	6	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash Point (°F):	37.4	--	--
Flash point (°C):	3	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	2.3 / 11.00	--	--

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Vapour pressure:	46 mm Hg	--	68°F / 20°C
Vapour density:	2.41	--	--
Relative density:	0.88 g/cm <sup>3</sup>	--	68°F / 20°C
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
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

**10. STABILITY AND REACTIVITY**

**Reactivity**

It may generate dangerous reactions (See subsections below)

**Chemical stability**

It may generate dangerous reactions (See subsections below)

**Possibility of hazardous reactions**

None

**Conditions to avoid**

Avoid accumulating electrostatic charge.

**Incompatible materials**

Avoid contact with combustible materials. The product could catch fire.

**Hazardous decomposition products**

None.

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

Toxicological information of the product:

CS-3600

Acute toxicity

Not classified

Based on available data, the classification criteria are not met

Skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation

The product is classified: Eye Irrit. 2A H319

Respiratory or skin sensitisation

Not classified

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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  
Not classified  
Based on available data, the classification criteria are not met  
STOT-single exposure  
The product is classified: STOT SE 3 H336  
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:  
Methyl ethyl ketone - CAS: 78-93-3  
Acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 2193 mg/kg - Source: OECD 423  
Test: LD50 - Route: Skin - Species: Rabbit > 10 ml/kg - Duration: 24 hours - Source:  
OECD 402  
Test: ATE - Route: Oral 2193 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.

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## 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

#### Methyl ethyl ketone - CAS: 78-93-3

##### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2993 mg/l - Duration h: 96 - Notes: Pimephalales  
promelas, OECD 203

Endpoint: EC50 - Species: Daphnia Magna = 308 mg/l - Duration h: 48 - Notes: OECD  
202

Endpoint: ErC50 - Species: Algae = 1972 mg/l - Duration h: 72 - Notes: OECD 201

### Persistence and degradability

N.A.

### Bioaccumulative potential

N.A.

### Mobility in soil

N.A.

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**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: 1133  
 DOT number: UN1133  
 IATA-UN Number: 1133  
 IMDG-UN Number: 1133

UN proper shipping name

ADR-Shipping Name: ADHESIVES (Methyl ethyl ketone)  
 DOT-Shipping Name: Adhesives, containing a flammable liquid(Methyl ethyl ketone)  
 IATA-Shipping Name: ADHESIVES (Methyl ethyl ketone)  
 IMDG-Shipping Name: ADHESIVES (Methyl ethyl ketone)

Transport hazard class(es)

ADR-Class: 3  
 DOT Hazard Class: 3  
 ADR - Hazard identification number: 33  
 IATA-Class: 3  
 IATA-Label: 3  
 IMDG-Class: 3

Packing group

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

Environmental hazards

ADR-Environmental 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: 149, B52, IB2, T4, TP1, TP8  
 ADR-Subsidiary hazards: -  
 ADR-S.P.: 640C  
 ADR-Transport category (Tunnel restriction code): 2 (D/E)  
 IATA-Passenger Aircraft: 353  
 IATA-Subsidiary hazards: -  
 IATA-Cargo Aircraft: 364  
 IATA-S.P.: A3  
 IATA-ERG: 3L  
 IMDG-EmS: F-E , S-D

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IMDG-Subsidiary hazards: -  
IMDG-Stowage and handling: Category B  
IMDG-Segregation: -

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**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:  
Methyl ethyl ketone is listed in TSCA Section 8.

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:  
No substances listed.

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:  
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:

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**16. OTHER INFORMATION**

Full text of phrases referred to in Section 3:  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.



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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.	

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STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWA: Time-weighted average

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