

Safety Data Sheet
according to HPR, Schedule 1

Printing date 05/12/2021

Reviewed on 11/23/2016

1 Identification

- **Product identifier:** CRM-16-A
- **Trade name:** CANTESCO® CERAMIC ANTI-SPATTER
- **Item number(s):** CRM-16-A
- **SDS Number:** 68
- **UPC bar code(s):** 699913-12570
- **Application of the substance / the mixture** CERAMIC ANTI-SPATTER
- **Manufacturer/Supplier:**
WWW.CANTESCO.COM

USA ADDRESS:
KEMPER SYSTEM AMERICA, INC.
1200 NORTH AMERICA DR,
WEST SENECA, NY 14224
PH (716) 558-2971

CANADIAN ADDRESS:
ASTARAS CANADA, INC.
4-7075 EDWARDS BLVD
MISSISSAUGA, ONTARIO, L5S 1Z2
PH (905) 624-5463

- **Information department:**
Tel: (716) 558-2971 ext. 228
www.cantesco.com
- **Emergency telephone number:**
ChemTrec (800) 424-9300 / 1-(703)-741-5970
Canada only: CANUTECH (Call collect) (613) 996-6666

2 Hazard identification

- **Classification of the substance or mixture:**



GHS02 Flame

Flammable Aerosols - Category 1

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.



GHS04 Gas cylinder

Gases Under Pressure - Compressed Gas

H280 Contains gas under pressure; may explode if heated.



GHS07

Eye Irritation - Category 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure - Category 3

H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
(Contd. on page 2)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/12/2021

Reviewed on 11/23/2016

Trade name: CANTESCO® CERAMIC ANTI-SPATTER

(Contd. of page 1)

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

acetone

butanone

· **Hazard statements:**

H222-H229 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· **Precautionary statements:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P403 Store in a well-ventilated place.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Information pertaining to particular dangers for man and environment:**

· **NFPA ratings (scale 0 - 4):**



Health = 2

Fire = 4

Reactivity = 0

3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

106-97-8	butane	30-60% w/w *
74-98-6	propane	30-60% w/w *
67-64-1	acetone	10-30% w/w *
78-93-3	butanone	≤10% w/w

* Actual concentration ranges are withheld as a trade secret.

CA

(Contd. on page 3)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/12/2021

Reviewed on 11/23/2016

Trade name: CANTESCO® CERAMIC ANTI-SPATTER

(Contd. of page 2)

4 First-aid measures

- **After inhalation:**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Do not spray on a naked flame or any incandescent material.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.

(Contd. on page 4)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/12/2021

Reviewed on 11/23/2016

Trade name: CANTESCO® CERAMIC ANTI-SPATTER

(Contd. of page 3)

- **Further information about storage conditions:**
 - Keep receptacle tightly sealed.
 - Do not gas tight seal receptacle.
 - Store in cool, dry conditions in well sealed receptacles.
 - Protect from heat and direct sunlight.
- **Specific end use(s):** No further relevant information available.

8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

106-97-8 butane

EL (Canada)	Short-term value: 750 ppm Long-term value: 600 ppm
EV (Canada)	Long-term value: 800 ppm
REL (USA)	Long-term value: 1900 mg/m ³ , 800 ppm
TLV (USA)	Short-term value: (2370) mg/m ³ , (1000) ppm NIC-EX

74-98-6 propane

EL (Canada)	Long-term value: 1000 ppm
EV (Canada)	Long-term value: 1,000 ppm
PEL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm
TLV (USA)	refer to Appendix F in TLVs&BEIs book; NIC-EX

67-64-1 acetone

EL (Canada)	Short-term value: 500 ppm Long-term value: 250 ppm
EV (Canada)	Short-term value: 750 ppm Long-term value: 500 ppm
PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm
TLV (USA)	Short-term value: 1187 mg/m ³ , 500 ppm Long-term value: 594 mg/m ³ , 250 ppm BEI

78-93-3 butanone

EL (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm
EV (Canada)	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm
PEL (USA)	Long-term value: 590 mg/m ³ , 200 ppm
REL (USA)	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm
TLV (USA)	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm BEI

(Contd. on page 5)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/12/2021

Reviewed on 11/23/2016

Trade name: CANTESCO® CERAMIC ANTI-SPATTER

(Contd. of page 4)

· Ingredients with biological limit values:
67-64-1 acetone

BEI (USA)	50 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Acetone (nonspecific)

78-93-3 butanone

BEI (USA)	2 mg/L
	Medium: urine
	Time: end of shift
	Parameter: MEK

· Additional information: The lists that were valid during the creation were used as basis.

· Personal protective equipment
· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes.
 Avoid contact with the eyes and skin.

· Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves:

Natural rubber, NR
 Butyl rubber, BR
 Nitrile

· Eye protection:


Tightly sealed goggles

9 Physical and chemical properties

· Form:	Suspension
· Color:	White
· Odor:	Solvent-like
· Odor threshold:	Not determined.

· pH-value:	Not determined.
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· Change in condition

Melting point/Melting range:	>95.3 °C
Boiling point/Boiling range:	>56 °C

· Flash point:	>-17 °C
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· Flammability (solid, gaseous):	Flammable.
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· Ignition temperature:	365 °C
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· Decomposition temperature:	Not determined.
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(Contd. on page 6)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/12/2021

Reviewed on 11/23/2016

Trade name: CANTESCO® CERAMIC ANTI-SPATTER

(Contd. of page 5)

· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits	
Lower:	1.5 Vol %
Upper:	13.0 Vol %
· Vapor pressure at 20 °C:	8300 hPa
· Density at 20 °C:	0.73 g/cm ³
· Relative density:	Not determined.
· Vapor density at 20 °C:	2.410 g/cm ³
· Evaporation rate:	Not determined.
· Solubility in / Miscibility with Water:	Partly miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC content:	110.2 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity**
- **Specific symptoms in biological assay:** No further relevant information available.
- **Primary irritant effect**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

(Contd. on page 7)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/12/2021

Reviewed on 11/23/2016

Trade name: CANTESCO® CERAMIC ANTI-SPATTER

(Contd. of page 6)

· **NTP (National Toxicology Program)**

None of the ingredients is listed.


12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Other adverse effects:** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings**
- **Recommendation:**
Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

14 Transport information

- | | |
|---|---------------------|
| · UN-Number | |
| · DOT/TDG, ADR, IMDG, IATA | UN1950 |
| · UN proper shipping name | |
| · DOT/TDG | Aerosols, flammable |
| · ADR | 1950 Aerosols |
| · IMDG | AEROSOLS |
| · IATA | AEROSOLS, flammable |
| · Transport hazard class(es) | |
| · DOT/TDG (Transport dangerous goods): | |
|  | |
| · Class | 2.1 |

(Contd. on page 8)

-CA-

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/12/2021

Reviewed on 11/23/2016

Trade name: CANTESCO® CERAMIC ANTI-SPATTER

(Contd. of page 7)

· **Label** 2.1

· **ADR**



· **Class** 2 5F Gases

· **Label** 2.1

· **IMDG, IATA**



· **Class** 2.1

· **Label** 2.1

· **Packing group**

· **DOT/TDG, ADR, IMDG, IATA** Not regulated

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user:** Warning: Gases

· **Hazard identification number (Kemler code):** -

· **EMS Number:** F-D,S-U

· **Stowage Code** SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre:
Category A. For AEROSOLS with a capacity above 1 litre:
Category B. For WASTE AEROSOLS: Category C, Clear of
living quarters.

· **Segregation Code** SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1 except
for division 1.4.

For AEROSOLS with a capacity above 1 litre:
Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:
Segregation as for the appropriate subdivision of class 2.

· **Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code:**

Not applicable.

· **Transport/Additional information:**

· **DOT/TDG**

· **Quantity limitations**

On passenger aircraft/rail: 75 kg

On cargo aircraft only: 150 kg

· **Remarks:**

This product may be shipped according to the Limited Quantity
Exceptions provided that all Limited Quantity shipping
requirements are met.

(Contd. on page 9)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/12/2021

Reviewed on 11/23/2016

Trade name: CANTESCO® CERAMIC ANTI-SPATTER

(Contd. of page 8)

<ul style="list-style-type: none"> · ADR · Excepted quantities (EQ) · Remarks: 	Code: E0 Not permitted as Excepted Quantity This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) · Remarks: 	1L Code: E0 Not permitted as Excepted Quantity This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
<ul style="list-style-type: none"> · IATA · Remarks: 	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 1950 AEROSOLS, 2.1

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

78-93-3 butanone

71-36-3 butan-1-ol

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempted

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

None of the ingredients is listed.

- **Canadian substance listings**

- **Canadian Domestic Substances List (DSL/NDL):**

All ingredients are listed.

(Contd. on page 10)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/12/2021

Reviewed on 11/23/2016

Trade name: CANTESCO® CERAMIC ANTI-SPATTER

(Contd. of page 9)

· **Canadian Ingredient Disclosure list (limit 0.1%):**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%):**

106-97-8	butane
67-64-1	acetone
78-93-3	butanone

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS04 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**

acetone

butanone

· **Hazard statements**

H222-H229 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

16 Other information

This SDS format meets ANSI Z400.1-2010, OSHA 1910.1200 and WHMIS requirements. Kemper System America, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Kemper System America, Inc. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made. Kemper System America, Inc is an ISO 9001:2015 and ISO 14001:2015 registered company.

· **Department issuing SDS:** Product safety department

· **Contact:** Stephen Nowicki

· **Date of the latest revision of the safety data sheet** 05/12/2021 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)