

SAFETY DATA SHEET

1. Identification

Product identifier FLASH TG®
Other means of identification Not available.
Recommended use Not available.

Recommended restrictions Workers (and your customers or users in the case of resale) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name CETCO

Address 2870 Forbs Avenue

Hoffman Estates, IL 60192

United States

Telephone General Information 800 527-9948

Website http://www.cetco.com/
E-mail safety.data@amcol.com

Emergency phone number

Americas 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Prevention Observe good industrial hygiene practices.

Response If exposed or concerned: Get medical advice/attention.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%	
ASPHALT	PETROLEUM ASPHALT	8052-42-4	30 - < 40	
CALCIUM BORATE		12007-56-6	10 - < 20	
CALCIUM CARBONATE	LIMESTONE	1317-65-3	10 - < 20	
QUARTZ	CRYSTALLINE SILICA, QUARTZ SILICA (QUARTZ)	14808-60-7	3 - < 5	
Other components below reportable levels		30 - < 40		

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if

cough or other symptoms develop.

Skin contact Wash off with warm water and soap. Get medical attention if irritation develops or persists.

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Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if Eye contact

irritation develops or persists.

Ingestion If swallowed, rinse mouth with water (only if the person is conscious). Ingestion may cause

transient irritation of throat, stomach and gastrointestinal tract. Consult a physician if necessary.

Give several glasses of water.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed **General information** Direct contact with eyes may cause temporary irritation.

During fire, gases hazardous to health may be formed.

Move containers from fire area if you can do so without risk.

Provide general supportive measures and treat symptomatically.

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

Foam. Dry powder. Dry chemical, CO2, water spray or regular foam. Carbon dioxide (CO2).

Firefighters should wear full protective clothing including self contained breathing apparatus.

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

Specific methods Move containers from fire area if you can do so without risk.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Sweep up or gather material and place in appropriate container for disposal. Avoid dust formation. For waste disposal, see section 13 of the SDS. Reduce airborne dust and prevent scattering by moistening with water. Containment of this material should not be necessary.

Environmental precautions

No special environmental precautions required.

7. Handling and storage

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Heat only in areas with appropriate exhaust ventilation. Do not breathe dust. Avoid prolonged exposure.

Conditions for safe storage, including any incompatibilities Keep in a dry, cool place. Keep away from heat, sparks, and flame. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Туре	Value	Form
PEL	5 mg/m3	Respirable fraction.
	15 mg/m3	Total dust.
Туре	Value	Form
PEL	5 mg/m3	Respirable fraction.
	15 mg/m3	Total dust.
1000)		
Туре	Value	Form
TWA	0.3 mg/m3	Total dust.
	0.1 mg/m3	Respirable.
	2.4 millions of particle	Respirable.
	PEL Type PEL 1000) Type	PEL 5 mg/m3 Type Value PEL 5 mg/m3 Value PEL 5 mg/m3 15 mg/m3 15 mg/m3 15 mg/m3 15 mg/m3 15 mg/m3 2.4 millions of

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US	OSHA	Table	7-3	(29	CFR	1910	1000)
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Additional components	Туре	Value	Form	
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
		50 millions of particle	Total dust.	
		15 millions of particle	Respirable fraction.	
US. ACGIH Threshold Limit				
Components	Туре	Value	Form	
ASPHALT (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fraction.	
QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.	
Additional components	Туре	Value	Form	
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	3 mg/m3	Respirable particles.	
(10 mg/m3	Inhalable particles.	
US. NIOSH: Pocket Guide to	Chemical Hazards			
Components	Туре	Value	Form	
ASPHALT (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.	
CALCIUM CARBONATE (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.	
		10 mg/m3	Total	
QUARTZ (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.	
logical limit values	No biological exposure limits noted for	r the ingredient(s).		
osure guidelines	Occupational exposure to nuisance d should be monitored and controlled.	cupational exposure to nuisance dust (total and respirable) and respirable crystalline silic buld be monitored and controlled.		
propriate engineering atrols	should be matched to conditions. If a	general ventilation (typically 10 air changes per hour) should be used. Ventilation rates d be matched to conditions. If applicable, use process enclosures, local exhaust ventilationer engineering controls to maintain airborne levels below recommended exposure limits.		

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear protective gloves.

Other Wear appropriate chemical resistant clothing. Use appropriate hand protection. The use of leather

gloves is recommended.

Respiratory protection Use a particulate filter respirator for particulate concentrations exceeding the Occupational

Exposure Limit. When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection

exposure limits have not been established, maintain airborne levels to an acceptable level.

must be provided.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. General hygiene

considerations

9. Physical and chemical properties

Fabric/Mat **Appearance** Solid. Physical state **Form** Solid. Roll. Color Black. Petroleum Odor Not available. **Odor threshold** Not available. pН Melting point/freezing point Not available. Initial boiling point and boiling

range

700 °F (371.11 °C) estimated

283.7 °F (139.8 °C) estimated Flash point

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Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

(%)

Flammability limit - upper

Flammability limit - lower

(%)

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available. Vapor pressure Not available. Vapor density

Relative density Solubility(ies)

Not available. Solubility (water) Not available. **Partition coefficient**

(n-octanol/water)

905 °F (485 °C) estimated **Auto-ignition temperature**

Not available. **Decomposition temperature** Not available. **Viscosity**

Other information

Density 1.00 g/cm3 estimated Combustible IIIB estimated Flammability class

Percent volatile 0 % estimated Specific gravity 1 estimated

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability This is a stable material.

Possibility of hazardous

reactions

Will not occur.

Not available.

Not available.

Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible

materials.

Acids. Fluorine. Incompatible materials

Hazardous decomposition

products

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard. Inhalation Prolonged inhalation may be harmful.

Skin contact Not available.

Eye contact Direct contact with eyes may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Product	Species	Test Results	
FLASH TG® (CAS Mixture	e)		
Acute			
Dermal			
LD50	Rat	8222 mg/kg	
Oral			
LD50	Rat	5248 mg/kg	

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Components **Species Test Results**

CALCIUM BORATE (CAS 12007-56-6)

Acute

Oral

LD50 Rat 5600 mg/kg

QUARTZ (CAS 14808-60-7)

Acute Oral

LD50 Rat 500 mg/kg

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Risk of cancer cannot be excluded with prolonged exposure. This material contains petroleum asphalt. IARC has determined that there is inadequate evidence that undiluted, air-refined asphalt is carcinogenic to animals. There is only limited evidence that undiluted, steam-refined and cracking-residue asphalt are carcinogenic to animals. Additionally, IARC has concluded that there is inadequate evidence that asphalts alone are carcinogenic to humans.

Prolonged and repeated skin contact with some solvent extracts of asphalts have produced skin cancer in animals. IARC has concluded that there is sufficient evidence for the carcinogenicity of asphalt extracts in animals. Therefore, "cutbacks" (asphalts that are diluted, dissolved, or liquefied in hydrocarbon solvents) may also be implicated as potentially carcinogenic. While brief or intermittent skin contact with this type of product is not expected to cause harm, those workers who do not practice good personal hygiene and who are exposed repeatedly via skin contact may be at risk.

Condensed asphalt fumes, which are generated under laboratory conditions and are chemically different from those found during typical asphalt operations, have been reported to cause bacterial mutations. However, inhalation of asphalt fumes by laboratory animals, during controlled studies, did not produce lung cancer. Additionally, human studies have not established a link between lung cancer and asphalt fume exposure to date.

This product may contain trace amounts of polynuclear aromatic hydrocarbons (PAHs) as naturally occurring constituents of crude oils from which asphalt is derived. Some PAHs have been shown to be carcinogenic after prolonged or repeated skin contact in laboratory animals.

IARC Monographs. Overall Evaluation of Carcinogenicity

ASPHALT (CAS 8052-42-4) 2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

QUARTZ (CAS 14808-60-7) 1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

QUARTZ (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity single exposure

Not classified.

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^{*} Estimates for product may be based on additional component data not shown.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not available.

Chronic effects

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Some of the components of this product are hazardous in the respirable form. However, because of the physical nature of this product, dust generation is not expected. Overexposure to dusts may result in pneumoconiosis, which can lead to fibrotic changes in the lung tissue, or silicosis, a respiratory disease caused by inhalation of crystalline silica dust, which can lead to inflammation and fibrosis of the lung tissue. Occupational exposure to nuisance dust (total and respirable) and respirable

crystalline silica should be monitored and controlled.

Further information

Information given is based on data on the components and the toxicology of similar products. No

data is available on the product itself.

12. Ecological information

Ecotoxicity This product has no known eco-toxicological effects. **Persistence and degradability** No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not available.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly

Hazardous Process Safety Standard, 29 CFR 1910.119.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)

ASPHALT (CAS 8052-42-4) LISTED

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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SARA 302 Extremely Yes

hazardous substance

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

CALCIUM CARBONATE (CAS 1317-65-3)

QUARTZ (CAS 14808-60-7)

US. Massachusetts RTK - Substance List

ASPHALT (CAS 8052-42-4)

CALCIUM CARBONATE (CAS 1317-65-3)

QUARTZ (CAS 14808-60-7)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

ASPHALT (CAS 8052-42-4) Listed: January 1, 1990 QUARTZ (CAS 14808-60-7) Listed: October 1, 1988

International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date13-August-2014Revision date13-August-2014

Version # 10

United States & Puerto Rico

Further information This safety datasheet only contains information relating to safety and does not replace any product

information or product specification.

HMIS® ratings Health: 2*

Flammability: 1 Physical hazard: 0

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Yes

On inventory (yes/no)*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

NFPA ratings

Health: 2 Flammability: 1 Instability: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

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Revision Information

GHS: Classification

Material name: FLASH TG® SDS US