



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CORTEX™ XP
Version # 01
Revision date 14-January-2010
CAS # Mixture
Company CETCO
Building Materials Group
2870 Forbs Avenue
Hoffman Estates, IL 60192 US
safety.data@amcol.com
http://www.cetco.com/
General Information (800) 527-9948
CHEMTREC® (800) 424-9300

2. Hazards Identification

Potential health effects

Routes of exposure Eye contact. Inhalation.
Eyes Dust or powder may irritate eye tissue. Symptoms include itching, burning, redness and tearing.
Skin May cause skin irritation in susceptible persons. Chronic exposure causes drying effect on the skin and eczema.
Inhalation Inhalation of dusts may cause respiratory irritation.
Ingestion No significant adverse effects are expected upon ingestion of the product.

Chronic effects Overexposure to dusts may result in pneumoconiosis, a lung disease due to permanent deposition of substantial amounts of particulate matter in the lungs.

3. Composition / Information on Ingredients

Components	CAS #	Percent
TRADE SECRET	Proprietary	2.5 - 10
Non-hazardous and other components below reportable levels		> 90

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
Skin contact Wash affected area with mild soap and water. Get medical attention if irritation develops or persists.
Inhalation If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention.
Ingestion For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

Notes to physician Provide general supportive measures and treat symptomatically.

5. Fire Fighting Measures

Flammable properties Dust accumulation from this product may present an explosion hazard in the presence of an ignition source.

Extinguishing media

Suitable extinguishing media Dry chemical, CO2, water spray or regular foam.

Protection of firefighters

Protective equipment and precautions for firefighters Material can be slippery when wet. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal precautions	Material can be slippery when wet. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits.
Environmental precautions	No special environmental precautions required.
Methods for containment	Stop leak if you can do so without risk.
Methods for cleaning up	Sweep up or gather material and place in appropriate container for disposal. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling	Do not get this material in contact with eyes. Avoid breathing dusts from this material. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands after handling and before eating.
Storage	Keep containers tightly closed in a cool, well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Type	Value	Form
TRADE SECRET (Proprietary)	STEL TWA	15 ppm 10 ppm	

Impurities

Impurities	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	10 mg/m3 3 mg/m3	Inhalable particles. Respirable particles.

Residuals

Residuals	Type	Value	Form
Acrylamide (79-06-1)	TWA	0.03 mg/m3	Inhalable fraction and vapor.

U.S. - OSHA

Components	Type	Value	Form
TRADE SECRET (Proprietary)	STEL TWA	20 ppm 60 mg/m3 30 mg/m3 10 ppm	

Impurities

Impurities	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	PEL TWA	5 mg/m3 15 mg/m3 50 mppcf 15 mppcf 5 mg/m3 15 mg/m3	Respirable fraction. Total dust. Total dust. Respirable fraction. Respirable fraction. Total dust.

Residuals

Residuals	Type	Value	Form
Acrylamide (79-06-1)	PEL TWA	0.3 mg/m3 0.03 mg/m3	

Engineering controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.
-----------------------------	--

Personal protective equipment

Eye / face protection	Wear chemical goggles.
Skin protection	Normal work clothing (long sleeved shirts and long pants) is recommended. Wear appropriate chemical resistant gloves.
Respiratory protection	If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

General hygiene considerations

Use good industrial hygiene practices in handling this material.

9. Physical & Chemical Properties

Appearance	Granular.
Color	White.
Odor	None.
Odor threshold	Not available.
Physical state	Solid.
Form	Powder.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	Not available.
Relative density	Not available.
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological data

Product

CORTEX™ XP (Mixture)

Test Results

Acute Dermal LD50 Rabbit: 46400 mg/kg estimated
Acute Inhalation LC50 Mouse: 67000 mg/l estimated
Acute Inhalation LC50 Rabbit: 92073 mg/l estimated
Acute Inhalation LC50 Rat: 73600 mg/l estimated
Acute Inhalation LC50 Rat: 228 mg/l/4h estimated
Acute Oral LD50 Mouse: 32260 mg/kg estimated

Components

TRADE SECRET (Proprietary)

Test Results

Acute Dermal LD50 Rabbit: 2320 mg/kg
Acute Inhalation LC50 Guinea pig: 6215 mg/l 4.00 Hours
Acute Inhalation LC50 Mouse: 1550 mg/l 4.00 Hours

Components

TRADE SECRET (Proprietary)

Test Results

Acute Inhalation LC50 Rabbit: 2500 mg/l 4.00 Hours
Acute Inhalation LC50 Rat: 3680 mg/l 4.00 Hours
Acute Inhalation LC50 Rat: 11.4 mg/l/4h
Acute Oral LD50 Mouse: 1613 mg/kg
Acute Oral LD50 Rat: 2920 mg/kg

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

Local effects

Dust or powder may irritate eye tissue. Inhalation of dusts may cause respiratory irritation.

Chronic effects

Overexposure to dusts may result in pneumoconiosis, a lung disease due to permanent deposition of substantial amounts of particulate matter in the lungs.

Sensitization

US ACGIH Threshold Limit Values: Skin designation

Acrylamide (79-06-1) Can be absorbed through the skin.

Carcinogenicity

IARC Monographs: Overall evaluation

Acrylamide (79-06-1) 2A Probably carcinogenic to humans.
TRADE SECRET (Proprietary) 2B Possibly carcinogenic to humans.

US ACGIH Threshold Limit Values: A3 carcinogen

Acrylamide (79-06-1) A3 Confirmed animal carcinogen with unknown relevance to humans.
TRADE SECRET (Proprietary) A3 Confirmed animal carcinogen with unknown relevance to humans.

US NTP Report on Carcinogens: Anticipated carcinogen

Acrylamide (79-06-1) Anticipated carcinogen.

12. Ecological Information

Ecotoxicological data

Product

CORTEX™ XP (Mixture)

Test Results

LC50 Fish: 564 mg/l 96.00 Hours estimated

Components

TRADE SECRET (Proprietary)

Test Results

LC50 Fathead minnow (Pimephales promelas): 14 mg/l 96.00 Hours
LC50 Fish: 31 mg/L 96.00 Hours

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

Ecotoxicity

This material is not expected to be harmful to aquatic life.

Environmental effects

Based on the physical properties of this product, significant environmental persistence and bioaccumulation would not be expected.

Persistence and degradability

Not inherently biodegradable.

13. Disposal Considerations

Waste codes

US RCRA Hazardous Waste U List: Reference

Acrylamide (79-06-1) U007

Disposal instructions

Dispose in accordance with all applicable regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information**US federal regulations**

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantityAcrylamide (79-06-1) 5000 LBS
TRADE SECRET (Proprietary) 5000 LBS**US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity**

TRADE SECRET (Proprietary) 1000 LBS

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold planning quantity, lower value

Acrylamide (79-06-1) 1000 LBS

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold planning quantity, upper value

Acrylamide (79-06-1) 10000 LBS

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentrationAcrylamide (79-06-1) 0.1 %
TRADE SECRET (Proprietary) 0.1 %**CERCLA (Superfund) reportable quantity**

TRADE SECRET: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories** Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No**Section 302 extremely hazardous substance** No**Section 311 hazardous chemical** Yes**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

State regulations

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

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Acrylamide (79-06-1) Listed.

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

Acrylamide (79-06-1) Listed: January 1, 1990 Carcinogenic.

US - New Jersey Community RTK (EHS Survey): Reportable thresholdAcrylamide (79-06-1) 500 LBS
TRADE SECRET (Proprietary) 500 LBS**US - Pennsylvania RTK - Hazardous Substances: Listed substance**Acrylamide (79-06-1) Listed.
TRADE SECRET (Proprietary) Listed.

16. Other Information

Further information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

HMIS ratings

HMIS®		
HEALTH	/	1
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

NFPA ratings

Health: 1
Flammability: 0
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.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Issue date

14-January-2010

Other information

CETCO is an AMCOL International company.