

Material Safety Data Sheet

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BASF CORPORATION
 3000 CONTINENTAL DRIVE

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EMERGENCY TELEPHONE: (800) 424-9300 CHEMTREC
 (800) 832-HELP (BASF Hotline)
 BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

CAFFEINE ANHYDROUS POWDER
 Product ID: NCN FC5121
 Common Chemical Name:
 1,3,7-Trimethylxanthine
 Synonyms:
 N/A

Molecular Formula:
 $C(8)H(10)N(4)O(2)$
 Chemical Family: Xanthine
 Molecular Wt.: 194.2

SECTION 2 - INGREDIENTS

Chemical Name:	CAS	Amount
CAFFEINE	58-08-2	> 99.5 %
PEL/TLV NOT ESTABLISHED		

SECTION 3 - PHYSICAL PROPERTIES

Color: White
 Form/Appearance: Powder
 Odor: Odorless
 Typical Low/High U.O.M.
 Specific Gravity: NOT AVAILABLE
 pH: 5.5- 6.5 10 G/L H2O
 Typical Low/High Deg. @ Pressure
 Boiling Pt: NOT AVAILABLE
 Freezing Pt: 235 - 237.5 C 1 ATMOSPHERES
 Decomp. Temp: NOT AVAILABLE
 Solubility in Water Description: Slightly Soluble
 Typical Low/High U.O.M. @ Temperature
 Solubility: 20 G/L 20 C
 Octanol Water Coeff: 0.0907

SECTION 4 - FIRE AND EXPLOSION DATA

	Typical	Low/High	Deg.	Method
Flash Point:	NOT AVAILABLE			

SECTION 4 - FIRE AND EXPLOSION DATA (cont)

	Typical	Low/High	Deg.	Method
Autoignition:	> 600			C DIN 51794

Extinguishing Media:

Use water fog, foam, CO2 or dry chemical extinguishing media.

Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Unusual Hazards:

Ensure adequate ventilation to minimize dusting. When transferring this product make sure equipment is grounded to prevent electrostatic buildup and potential explosion of dust/air mixture.

Combustion value: 3

Electrostatic charging: High

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Toxicology Test Data:

Rat, Oral LD50 - 261 - 383 MG/KG

Very Toxic

Rat, Dermal LD50 - > 2000 MG/KG

Slightly Toxic

Rat, Inhalation Safety Screen, 4 hr - CA. 4.94 MG/L

Moderately Toxic

Mouse, intravenous LD50 - 68 MG/KG

Very Toxic

Rabbit, Primary Skin Irritation -

Nonirritating

Rabbit, Mucous Membrane Irritation Study -

Nonirritating

Rat, Acute Intravenous LD50 - 105 MG/KG

Very Toxic

Mouse, Oral LD50 - 620 MG/KG

Moderately Toxic

Acute Overexposure Effects:

Contact with the eyes and skin may result in irritation.

This material is highly toxic by ingestion.

Inhalation may result in respiratory irritation.

Chronic Overexposure Effects:

There are no known chronic effects associated with this material.

First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

First Aid Procedures - Eyes:

Eye contact: Flush with copious amounts of water for at least 15 minutes. Hold eyelids open to facilitate rinsing. Seek medical

SECTION 5 - HEALTH EFFECTS (cont)

assistance immediately.

First Aid Procedures - Ingestion:

If swallowed, dilute with water and immediately induce vomiting.

Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:

None known.

First Aid Procedures - Aggravated Medical Conditions:

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to Section 5 (Effects of Overexposure) for effects observed in animals.

First Aid Procedures - Special Precautions:

None

SECTION 6 - REACTIVITY DATA

Stability Data:

Stable

Incompatibility:

None known.

Conditions/Hazards to Avoid:

Avoid dust cloud formation.

Hazardous Decomposition/Polymerization:

Hazardous decomposition products: None known.

Polymerization: Does not occur.

Corrosive Properties:

Not corrosive.

Oxidizer Properties:

Not an oxidizer

SECTION 7 - PERSONAL PROTECTION

Clothing:

Gloves, coveralls, apron, and boots as necessary to prevent contact.

Eyes:

Safety glasses with side-shields or chemical goggles.

Respiration:

If dusts are generated, wear an approved dust respirator.

Ventilation:

Use local exhaust to control dusts.

Explosion Proofing:

None required.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:

Spills should be contained, solidified and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA ("Superfund"). Wear appropriate respiratory protection and protective clothing and provide adequate

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL (cont)

ventilation during clean-up.

Waste Disposal:

Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

Environmental Toxicity Test Data:

Biological Oxygen Demand - < 20 PERCENT

Poorly biodegradable

Golden Orfe, static 96 hr LC50 - CA. 87 MG/L

Slightly Toxic

Golden Orfe, Acute LC-0 - 50 MG/L

Slightly Toxic

Pseudomonas putida, Toxicity, EC - EC10 = 1530 MG/L

TEST RATING NOT FOUND

Daphnia magna, 48 hr static EC50 - 182.12 MG/L

Practically Nontoxic

SECTION 9 - STORAGE AND HANDLING

General:

Store at moderate temperatures in tight, light-resistant containers.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: YES

Product Grades: USP: Y NF: FCC:

SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

NONE

DOT Technical Name:

NONE

DOT Primary Hazard Class:

NONE

DOT Secondary Hazard Class:

NONE

DOT Label Required:

NONE

DOT Placard Required:

NONE

DOT Poison Constituent:

BASF Commodity Codes: 453 453 UN/NA Code: E/R Guide:

Bill of Lading Description:

FOOD, DRUGS, OR MEDICINE, NOIBN

SECTION 11 - TRANSPORTATION INFORMATION (cont)

	CLASS:	P. G.	SHIPPING NAME:
IATA:	NONE	N/A	NONE
IMO:	NONE	N/A	NONE
TDG:	NONE	N/A	NONE

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