

# SAFETY DATA SHEET

## 1. Identification

Product identifier N-FLASH®
Other means of identification Not available.
Recommended use Not available.
Recommended restrictions None known.

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	%
CARBON BLACK		1333-86-4	80.4
ZINC OXIDE		1314-13-2	3.8
ETHYLENE THIOUREA		96-45-7	0.5
Other components below reportable	levels		15.3

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**Composition comments** For the full text of the R phrases mentioned in this Section, see Section 15.

# 4. First-aid measures

**Inhalation** Oxygen or artificial respiration if needed.

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

**Eye contact** Get medical attention if irritation develops or persists.

Ingestion Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek

medical attention.

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Most important symptoms/effects, acute and delayed

Provide general supportive measures and treat symptomatically.

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

**General information** 

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

## 5. Fire-fighting measures

Suitable extinguishing media

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Dry chemical

(preferred), alcohol foam, water.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters In the event of fire, wear self-contained breathing apparatus.

Fire-fighting

equipment/instructions

In the event of fire, cool tanks with water spray.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

General fire hazards No unusual fire or explosion hazards noted.

US. OSHA Table 7-1 Limits for Air Contaminants (29 CFR 1910.1000)

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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.

Methods and materials for containment and cleaning up

Sweep up or gather material and place in appropriate container for disposal.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

# 7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Avoid breathing vapors from heated material.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store in a cool place in original container and protect from sunlight.

particle

# 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	PEL	3.5 mg/m3	
ZINC OXIDE (CAS 1314-13-2)	PEL	5 mg/m3	Respirable fraction.
•		5 mg/m3	Fume.
		15 mg/m3	Total dust.
Additional components	Туре	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	PEL	5 mg/m3	Respirable fraction.
(0,10 01 q100)		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910	.1000)	ŭ	
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	Respirable fraction.

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US. ACGIH Threshold Limit Values		Value	Form
Components	Туре	value	FOIIII
CARBON BLACK (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
ZINC OXIDE (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 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 Chen	nical Hazards		
Components	Туре	Value	Form

CARBON BLACK (CAS TWA 0.1 mg/m3 1333-86-4) ZINC OXIDE (CAS Ceiling 15 mg/m3 Dust. 1314-13-2) STEL 10 mg/m3 Fume. TWA 5 mg/m3 Dust. 5 mg/m3 Fume.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection When handling hot material, use heat resistant gloves. Hand protection

Other Wear suitable protective clothing.

When workers are facing concentrations above the exposure limit they must use appropriate Respiratory protection

certified respirators. Not normally needed for routine handling. If curing fumes are a problem, a NIOSH approved air purifying respirator with HEPA filters may be used. Select and use respirators

in accordance with OSHA 1910.134 and the respirator manufacturer.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Wash hands before breaks and at the end of workday.

# 9. Physical and chemical properties

Uncured Rubber **Appearance** 

**Physical state** Solid. **Form** Solid. Color Black. Odor Rubber Not available. Odor threshold Not available. pН Melting point/freezing point Not available.

Initial boiling point and boiling

range

7592 °F (4200 °C) estimated

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

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

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

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Not available. Vapor density Not available. Relative density

Solubility(ies)

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

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

1.97 g/cm3 estimated **Density** 

0 % estimated Percent volatile Specific gravity 1.97 estimated

# 10. Stability and reactivity

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

Stable at normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

Will not occur. Hazardous polymerization does not occur.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Upon decomposition, this product may yield sulfur dioxide, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Dimethylnitrosomine and Nitrosomorpholine at elevated temperatures.

# 11. Toxicological information

# Information on likely routes of exposure

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

Not available. Skin contact

Direct contact with eyes may cause temporary irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

# **Acute toxicity**

Product	Species	Test Results
N-FLASH® (CAS Mixture)		
Acute		
Dermal		
LD50	Rat	3731 mg/kg
Oral		
LD50	Rat	15991 mg/kg
Components	Species	Test Results
CARBON BLACK (CAS 13	333-86-4)	
Acute		
Oral		
LD50	Rat	> 8000 mg/kg
ETHYLENE THIOUREA (	CAS 96-45-7)	
Acute		
Oral		
LD50	Mouse	3000 mg/kg
	Rat	1832 mg/kg
Other		
LD50	Mouse	200 mg/kg

Material name: N-FLASH® SDS US Components Species Test Results

ZINC OXIDE (CAS 1314-13-2)

Acute

Inhalation

LC50 Mouse > 5.7 mg/l, 4 Hours

Oral

LD50 Mouse 7950 mg/kg

Rat > 5 g/kg

5000.0001 mg/kg

Other

LD50 Rat 240 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

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 A class of materials called nitrosamines are carcinogens in animals and therefore are suspected

of causing cancer in humans. Because many rubber materials contain amine based ingredients, trace residual amounts (well below 0.1%) of nitrosamine are likely to exist in most rubber compounds as a result of being formed in earlier processing steps. Subjecting this product to certain processing steps can form higher amounts of nitrosamines which are believed to present a health hazard. Avoid mixing or exposing this product with: nitrates, nitrites, nitrogen oxides or other nitrosamines as potentially hazardous levels of nitrosamines will be formed. Salt bath curing (using nitrate/nitrite calca) can be expected to produce hazardous amounts of validities.

(using nitrate/nitrite sales) can be expected to produce hazardous amounts of volatile nitrosamines. Emissions from such processes must be exhausted. Employees must avoid

inhaling fumes from hot rubber processing.

IARC Monographs. Overall Evaluation of Carcinogenicity

CARBON BLACK (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

ETHYLENE THIOUREA (CAS 96-45-7) 3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

ETHYLENE THIOUREA (CAS 96-45-7) Reasonably Anticipated to be a Human Carcinogen.

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

Specific target organ toxicity -

single exposure

Not classified.

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.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results	
ETHYLENE THIOUREA (CAS 96-45-7)				
Fish	LC50	Fish	7500 mg/L, 96 Hours	
Aquatic				
Fish	LC50	Guppy (Poecilia reticulata)	5600 - 10000 mg/l, 96 hours	
ZINC OXIDE (CAS 1	314-13-2)			
Aquatic				
Fish	LC50	Fathead minnow (Pimephales promelas)	2246 mg/l, 96 hours	

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Material name: N-FLASH® SDS US

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Partition coefficient n-octanol / water (log Kow)

ETHYLENE THIOUREA -0.66

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 instructions**Collect 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.

**US RCRA Hazardous Waste U List: Reference** 

ETHYLENE THIOUREA (CAS 96-45-7) U116

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.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

ETHYLENE THIOUREA (CAS 96-45-7) 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 - Yes

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

SARA 302 Extremely

hazardous substance

Yes

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.ETHYLENE THIOUREA96-45-70.5

#### Other federal regulations

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

ETHYLENE THIOUREA (CAS 96-45-7)

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.

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

and birth defects or other reproductive harm.

Material name: N-FLASH® SDS US

## US - Pennsylvania RTK - Hazardous Substances: Listed substance

CARBON BLACK (CAS 1333-86-4) ETHYLENE THIOUREA (CAS 96-45-7)

ZINC OXIDE (CAS 1314-13-2)

#### **US. Massachusetts RTK - Substance List**

CARBON BLACK (CAS 1333-86-4) ETHYLENE THIOUREA (CAS 96-45-7) ZINC OXIDE (CAS 1314-13-2)

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

ETHYLENE THIOUREA (CAS 96-45-7) 500 lbs

**US. Rhode Island RTK** 

ETHYLENE THIOUREA (CAS 96-45-7)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

CARBON BLACK (CAS 1333-86-4) Listed: February 21, 2003 ETHYLENE THIOUREA (CAS 96-45-7) Listed: January 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Inventory name

ETHYLENE THIOUREA (CAS 96-45-7) Listed: January 1, 1993

#### **International Inventories**

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (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	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

<sup>\*</sup>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

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).

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

Issue date19-August-2014Revision date19-August-2014

Version # 12

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

NFPA ratings Health: 2

Flammability: 1 Instability: 0

Material name: N-FLASH® SDS US

No

On inventory (yes/no)\*

#### 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

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