

Miller and Company LLC 9700 West Higgins Road Suite 1000 Rosemont, Illinois 60018

Telephone Number: 847-696-2400

Updated: January 2, 2013

## **MSDS**

Product: Milco 4 Carbon Raiser

The subject product is a mechanical blend of one or more of the following raw material(s):

## **Components**

Calcined Petroleum Coke Calcined Anthracite

Custom screened, sized, and packaged to specification at time of blending.

Since the mixture presents no greater hazard than any of the individual components, the Material Safety Data Sheets for the individual components are attached and satisfy the requirements of the data sheet for the mixture (Appendix A, Clarifications and Interpretations for the Hazard Communication Standard (HCS), OSHA CPL 2-2, 38B, 15 August 1988).

## **MATERIAL SAFETY DATA SHEET**

SRM Supplier: National Institute of Standards and Technology

**Standard Reference Materials Program** 

100 Bureau Drive, Stop 2321

Gaithersburg, Maryland 20899-2321

SRM Number: 2719 MSDS Number: 2719

SRM Name: Calcined Petroleum Coke

Date of Issue: 20 May 2002

MSDS Coordinator: Carmen S. Davis

Phone: (301) 975-6776 ChemTrec: 1-800-424-9300 FAX: (301) 926-4751

E-mail: SRMMSDS@nist.gov

#### SECTION I. MATERIAL IDENTIFICATION

Material Name: Calcined Petroleum Coke

Description: SRM 2719 consists of 50 g of calcined petroleum coke ground to pass a 250 µm (60 mesh) sieve,

homogenized, and bottled under an argon atmosphere.

Other Designations: Calcined Petroleum Coke (calcined; petroleum coke, calcined)

Name

Chemical Formula

CAS Registry Number

Calcined Petroleum Coke

complex molecule

64743-05-1

DOT Classification: Not hazardous by DOT regulations

Manufacturer/Supplier: Available from a number of suppliers

#### SECTION II. HAZARDOUS INGREDIENTS

Hazardous Component	Nominal Concentration (%)	Exposure Limits and Toxicity Data
Calcined Petroleum Coke	~100	No occupational exposure limits established

## SECTION IIL PHYSICAL/CHEMICAL CHARACTERISTICS

Calcined Petroleum Coke		
Appearance and Odor: black solid with varying odor	Melting Point: not available	
Relative Molecular Weight: complex molecule	Vapor Pressure: not applicable	
Specific Gravity (Water = 1): 2.1	Vapor Density: not available	
Boiling Point: not applicable	pH: not available	
Water Solubility: insoluble	Solvent Solubility: not available	

SECTION I	V. FIRE AND EXPLOSION HAZARD DATA
Flas	sh Point: Not Applicable Method Used: Not Applicable Autoignition Temperature: Not Available
Flar	mmability Limits in Air (Volume %): UPPER: Not Applicable LOWER: Not Applicable
	usual Fire and Explosion Hazards: This material is a slight fire hazard. Dust/air mixtures may ignite or explode. cined petroleum coke, with strong oxidizers, presents a fire and explosion hazard.
Ext	inguishing Media: Use extinguishing agents that are appropriate to the surrounding fire.
	cial Fire Procedures: Fire fighters should wear self-contained breathing apparatus (SCBA) and protective hing when fighting fires involving materials of this type.
ECTION V	V. REACTIVITY DATA
Stal	bility: X Stable Unstable
Con	aditions to Avoid: Avoid generating dust and contact with incompatible materials.
Inco	ompatibility (Materials to Avoid): Calcined Petroleum coke is incompatible with oxidizing materials.
See	Section IV: Fire and Explosion Hazard Data
Haz	cardous Decomposition or Byproducts: Thermal decomposition products may include oxides of carbon, sulfur, hydrocarbons.
Haz	cardous Polymerization: Will Occur X Will Not Occur
ECTION V	YI. HEALTH HAZARD DATA
Rou	te of Entry: X Inhalation X Skin X Ingestion
Rep infe	alth Hazards (Acute and Chronic): Inhalation of calcined petroleum coke may irritate the respiratory tract, eated or prolonged exposure to coke dust may aggravate an existing bronchitis due to other causes such as ctious diseases or smoking. Chronic inhalation of high levels may result in a mild lung fibrosis. Eye and/or skin osure to this material may cause irritation due to abrasiveness.
	dical Conditions Generally Aggravated by Exposure: This material may aggravate existing respiratory orders.
List	red as a Carcinogen/Potential Carcinogen:
Ir	n the National Toxicology Program (NTP) Report on Carcinogens n the International Agency for Research on Cancer (IARC) Monographs By the Occupational Safety and Health Administration (OSHA)  Yes  X  X

#### **EMERGENCY AND FIRST AID PROCEDURES:**

Skin Contact: Remove contaminated shoes and clothing. Rinse affected area with large amounts of water followed by washing the area with soap and water. Obtain medical assistance if necessary.

Eye Contact: Immediately flush eyes, including under the eyelids, with copious amounts of water for at least 15 minutes. Obtain medical assistance if necessary.

Inhalation: If inhaled, move the victim to fresh air. If breathing is difficult, give oxygen, if the victim is not breathing, give artificial respiration. Obtain medical assistance if necessary.

Ingestion: If ingestion occurs, wash out mouth with water. Obtain medical assistance if necessary.

TARGET ORGAN(S) OF ATTACK: upper respiratory tract (URT)

#### SECTION VIL PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material Is Released or Spilled: Notify safety personnel of major spills and/or leaks. Shut off sources of ignition. Evacuate all nonessential personnel. Avoid raising dust. Recover small spills with a clean shovel and place into a clean, dry container for later disposal. For larger spills, wet the area with water and dike the material for later disposal. Clean up remaining residue using a high efficiency particulate filter.

Waste Disposal: Follow all federal, state, and local regulations.

Handling and Storage: Persons handling this material should wear an air purifying respirator with a high efficiency particulate filter. The specific respirator selected must be based on contamination levels found in the workplace, must be based on the specific operation, must NOT exceed the working limits of the respirator, and must be jointly approved by the National Institute for Occupational Safety and Health (NIOSH) and the Mine Safety and Health Administration (MSHA). Additional protective clothing, such as gloves, lab coats, and splash-proof or dust-resistant safety goggles should be worn.

**NOTE:** Contact lenses pose a special problem; soft lenses may absorb irritants and all lenses concentrate them. **DO NOT** wear contact lenses in the laboratory.

Store material in a cool, dry, well ventilated area away from flames, sources of ignition, and incompatible materials.

#### SECTION VIII. SOURCE DATA/OTHER COMMENTS

Sources: MDL Information Systems, Inc., MSDS Petroleum Coke, Calcined, 22 March 2001.

Merck Index, 11th Ed., 1989.

The Sigma Aldrich Library of Chemical Safety Data, Ed. II, 1988.

**Disclaimer:** Physical and chemical data contained in this MSDS are provided only for use in assessing the hazardous nature of the material. The MSDS was prepared carefully, using current references; however, NIST does not certify the data on the MSDS. The certified values for this material are given in the NIST Certificate of Analysis.

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION SECTION 1

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MDL INFORMATION SYSTEMS, INC. 1281 Murfreesboro Road, Suite 300 Nashville, TN 37217-2423 1-615-366-2000

EMERGENCY TELEPHONE NUMBER: 1-800-424-9300 (NORTH AMERICA) 1-703-527-3887 (INTERNATIONAL)

SUBSTANCE: CALCINED ANTHRACITE COAL

TRADE NAMES/SYNONYMS:

COAL, ANTHRACITE, CALCINED; CALCINED ANTHRACITE; DEVOLATIZED ANTHRACITE; COAL DUST; COAL CALCINATE; OHS35039

CHEMICAL FAMILY: polynuclear, aromatic, hydrocarbons

CREATION DATE: Apr 20 1993 REVISION DATE: Oct 31 2007

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: CALCINED ANTHRACITE COAL

CAS NUMBER: 68187-59-7

BC NUMBER (EINECS): 269-111-1

PERCENTAGE: 100.0

COMPONENT: OUARTZ

CAS NUMBER: 14808-60-7

EC NUMBER (EINECS): 238-878-4

PERCENTAGE: >1

SECTION 3 HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH-1 FIRE-1 REACTIVITY-0

EC CLASSIFICATION (CALCULATED): Not determined.

EMERGENCY OVERVIEW:

COLOR: black

PHYSICAL FORM: solid

MAJOR HEALTH HAZARDS: cancer hazard (in humans)

PHYSICAL HAZARDS: Dust/air mixtures may ignite or explode.

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: difficulty breathing, bluish skin color, lung damage,

cancer

SKIN CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: no information is available

EYE CONTACT:

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SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: no information on significant adverse effects

INGESTION:

SHORT TERM EXPOSURE: no information on significant adverse effects LONG TERM EXPOSURE: no information is available

CARCINOGEN STATUS:

OSHA: N NTP: Y IARC: Y

SECTION 4 FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

SKIN CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

INGESTION: If a large amount is swallowed, get medical attention.

SECTION 5 FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Slight fire hazard. Dust/air mixtures may ignite or explode.

EXTINGUISHING MEDIA: regular dry chemical, carbon dioxide, water, regular foat Large fires: Use regular foam or flood with fine water spray.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

WATER RELEASE: Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). Keep out of water supplies and sewers.

OCCUPATIONAL RELEASE:

Large spills: Collect spilled material in appropriate container for disposal. Avoid generating dust. Clean up residue with a high-efficiency particulate filter vacuum.

## SECTION 7 HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

Use methods to minimize dust.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

CALCINED ANTHRACITE COAL:

COAL DUST:

- 2 mg/m3 OSHA TWA (respirable particulate) (<5% crystalline silica)</pre>
- 0.1 mg/m3 OSHA TWA (respirable particulate) (>=5% crystalline silica)

2 mg/m3 UK OES TWA (respirable dust)

MEASUREMENT METHOD: Particulate filter; Gravimetric; NIOSH IV # 0600, Nuisance Dust (Respirable); ALSO # 7500

COAL DUST - ANTHRACITE:

0.4 mg/m3 ACGIH TWA (respirable particulate)

QUARTZ:

- 0.3 mg/m3 OSHA TWA (total particulate)
  0.1 mg/m3 OSHA TWA (respirable particulate)
- 0.05 mg/m3 ACGIH TWA (respirable fraction)
- 0.05 mg/m3 NIOSH recommended TWA 10 hour(s) (respirable dust)
- 0.3 mg/m3 UK MEL TWA (respirable particulate)

MEASUREMENT METHOD: Particulate filter; Low-temperature ashing; X-ray diffraction spectrometry; NIOSH IV # 7500; ALSO # 7601, # 7602

VENTILATION: Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area,

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any chemical cartridge respirator with organic vapor cartridge(s) and dust and mist filter(s).

Any chemical cartridge respirator with organic vapor cartridge(s) and high-efficiency particulate filter(s).

Any air-purifying respirator with a full facepiece, an organic vapor canister and a dust, mist, and fume filter.

Any powered, air-purifying respirator with a full facepiece and a

high-efficiency particulate filter.

For Unknown Concentrations or Immediately Dangerous to Life or Health any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid

COLOR: black

ODOR: Not available

BOILING POINT: Not applicable MELTING POINT: Not available VAPOR PRESSURE: Not applicable VAPOR DENSITY: Not applicable SPECIFIC GRAVITY: Not available WATER SOLUBILITY: Not available

PH: Not applicable

VOLATILITY: Not applicable ODOR THRESHOLD: Not available EVAPORATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

FLASHPOINT: Not determined

STABILITY AND REACTIVITY SECTION 10 \_\_\_\_\_

REACTIVITY; Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid generating dust.

INCOMPATIBILITIES: oxidizing materials, metals, metal salts, halogens, combustible materials, reducing agents, bases, acids

CALCINED ANTHRACITE COAL:

OXIDIZERS (STRONG): Pire and explosion hazard.

## QUARTZ:

ALKALIES (STRONG): May be attacked.

CHLORINE TRIFLUORIDE: Possible explosion.

HYDROCHLORIC ACID: Exothermic reaction. HYDROFLUORIC ACID: May be attacked. MANGANESE TRIFUORIDE: Violent reaction.

METALS: May produce violent explosion.

OXIDIZERS (STRONG): Fire and explosion hazard. OXYGEN TRIFUORIDE: Possible explosive reaction.

OZONE: Possible explosive reaction in presence of organic materials.

VINYL ACETATE: Vigorous reaction.

XENON HEXAFLUORIDE: Possible detonation.

## COAL DUST:

OXIDIZERS (STRONG): Fire and explosion hazard.

#### HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxides of carbon

POLYMERIZATION: Will not polymerize.

## SECTION 11 TOXICOLOGICAL INFORMATION

### QUARTZ:

TOXICITY DATA:

16 mppcf/8 hour(s)-17.9 year(s) intermittent inhalation-human TCLo; 300 ug/m3/10 year(s) intermittent inhalation-human LCLo; 90 mg/kg intravenous-rat LDLo; 200 mg/kg intratracheal-rat LDLo; 40 mg/kg intravenous-mouse LDLo; >20 mg/kg intratracheal-mouse LD; 20 mg/kg intravenous-dog LDLo; 80 mg/m3/26 week(s) intermittent inhalation-rat TCLo; 108 mg/m3/6 hour(s)-3 day(s) intermittent inhalation-rat TCLo; 58 mg/m3/13 week(s) intermittent inhalation-rat TCLo; 1475 ug/m3/8 hour(s)-21 week(s) intermittent inhalation-mouse TCLo; 4932 ug/m3/24 hour(s)-39 week(s) continuous inhalation-mouse TCLo; 28 mg/m3/3 week(s) intermittent inhalation-quinea pig TCLo; 3 mg/m3/6 hour(s)-78 week(s) intermittent inhalation-hamster TCLo

CARCINOGEN STATUS: NTP: Known Human Carcinogen; IARC: Human Sufficient Evidence, Animal Sufficient Evidence, Group 1; EC: Category 2 Adenocarcinomas and squamous-cell carcinomas of the lung in rats were produced after inhalation or repeated intratracheal instillation of various forms of crystalline silica. Malignant lymphomas developed in rats after intrapleural and intraperitoneal injections of quartz suspensions and intrapleural injection of cristobalite and tridymite. Epidemiologic studies indicate lung cancer occurs more frequently among silicotics than in the general population.

ACUTE TOXICITY LEVEL: Insufficient Data.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: respiratory disorders

TUMORIGENIC DATA:

50 mg/m3 inhalation-rat TCLo/6 hour(s)-71 week(s) intermittent; 45 mg/kg intraperitoneal-rat TDLo; 90 mg/kg intravenous-rat TDLo; 90 mg/kg intrapleural-rat TDLo; 111 mg/kg intratracheal-rat TDLo; 100 mg/kg intratracheal-rat TDLo/19 week(s) intermittent; 900 mg/kg implant-rat TDLo; 4000 mg/kg implant-mouse TDLo; 83 mg/kg intrapleural-hamster TDLo; 90 mg/kg intraperitoneal-rat TD/4 week(s) intermittent; 450 mg/kg intraperitoneal-rat TD/4 week(s) intermittent; 4554 mg/kg implant-rat TD; 200 mg/kg intrapleural-rat TD; 100 mg/kg intrapleural-rat TD; 100 mg/kg intrapleural-rat TD; 100 mg/kg intrapleural-rat TD

MUTAGENIC DATA:

micronucleus test - human lung 40 ug/cm2; micronucleus test - hamster lung 160 ug/cm2 ADDITIONAL DATA: Smoking may enhance the toxic effects.

## HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

CALCINED ANTHRACITE COAL: May cause irritation.

QUARTZ: Exposure to high concentrations may cause physical discomfort of the upper respiratory tract.

#### CHRONIC EXPOSURE:

CALCINED ANTHRACITE COAL: Inhalation of anthracite coal dust for several

years may cause coal workers pneumoconiosis. Coal workers pneumoconiosis exists in 2 forms: Simple, which results from carbon particles alone, and complicated, from a mixture of particles resulting in progressive massive fibrosis. Simple pneumoconiosis is slow in onset with nonspecific symptoms including coughing, wheezing, dyspnea, and black sputum. Simple pneumoconiosis may occur concomitantly with chronic bronchitis and emphysema and is associated with minimal respiratory impairments. Diagnosis is made on the presence of small opacities on chest X-ray. As the simple pneumoconiosis progresses to an advanced stage, some reduction in ventilatory function may occur. Coal worker's pneumoconiosis appears to stop when exposure ceases, but progressive massive fibrosis may still develop. Complicated pneumoconiosis is diagnosed by large opacities on chest X-ray. Complicated pneumoconiosis is associated with reduction in ventilatory capacity, low diffusing capacity, abnormalities of gas exchange, low arterial oxygen tension, severe emphysema, pulmonary hypertension, right heart failure, and premature death. Tuberculosis and bacterial pneumonia are serious complications. Caplan's syndrome, depressed interferon activity, and cytotoxic effects have been reported. Freshness and increased surface area of dust particles increases cytotoxicity.

QUARTZ: Inhalation of very high concentrations of finely divided crystalline silica dust, exposure ranging from a few weeks to 4-5 years, may cause a rapidly developing silicosis, characterized by pulmonary insufficiency with severe dyspnea, violent coughing, tachypnea, weight loss, and cyanosis leading to the development of cor pulmonale and death within a relatively short period of time. A slowly developing silicosis may result from exposure for 6 months-30 years to relatively low levels of the dust. The first symptom is usually a slowly increasing, non-disabling exertional dyspnea due to pulmonary fibrosis and the emphysema associated with it. Continued exposure may increase the rate of progression of the disease. Also, the fibrogenic action may continue when exposure ceases. A: the fibrosis advances, other symptoms may include shortness of breath, productive cough, wheezing, chest tightness or pain, marked weakness, decreased capacity for work, and repeated non-specific chest illnesses. Cyanosis, clubbing of digits, orthopnea, or serious weight loss are not usually evident until the disease is advanced. Pulmonary infections, which may be indicated by hemoptysis, and cardiac decompensation may exacerbate the symptoms. Three major complications, which are the most frequent causes of death, are pulmonary tuberculosis, respiratory insufficiency which is due to the massive emphysematous and fibrotic changes and is sometimes accompanied by chronic cor pulmonale, and acute bronchopulmonar infection. A number of studies have shown that persons diagnosed as having silicosis have an increased risk for dying from lung cancer. This increase has been seen among miners, quarry workers, foundry workers, ceramic workers, granite workers, and stone cutters. In some of these studies, the risk of lung cancer increased with the duration of employment. Various forms and preparations of crystalline silica produced adenocarcinomas and squamous cell carcinomas of the lungs in rats.

## SKIN CONTACT:

ACUTE EXPOSURE:

CALCINED ANTHRACITE COAL: No data available.

QUARTZ: May cause irritation of intact skin due to mechanical abrasion. In the skin is abraded, a heavy growth of scar tissue may be induced.

#### CHRONIC EXPOSURE:

CALCINED ANTHRACITE COAL: No data available.

QUARTZ: No data available.

#### EYE CONTACT:

## ACUTE EXPOSURE:

CALCINED ANTHRACITE COAL: No data available.

QUARTZ: May cause irritation due to mechanical action. Particles of silic in the range of 2-3 micrometers introduced into the corneal stroma of rabbit eyes caused very little reaction. These same particles introduced into the anterior chamber resulted in an inflammatory reaction in 3-5 weeks with the formation of fibrotic nodules in the iridocorneal angle. Finely divided silica injected into the vitreous of rabbit eyes has cause necrosis of the retina and atrophy of the choroid.

#### CHRONIC EXPOSURE:

CALCINED ANTHRACITE COAL: No data available.

QUARTZ: An abnormally high silicon content in the cornea, and a gradual decrease in visual acuity due to corneal opacities in the pupillary area, have been reported in a group of foundry workers.

#### INGESTION:

#### ACUTE EXPOSURE:

CALCINED ANTHRACITE COAL: No data available.

QUARTZ: Effects of ingestion are due to mechanical action as crystalline silicas are biologically inert.

### CHRONIC EXPOSURE:

CALCINED ANTHRACITE COAL: No data available.

QUARTZ: No data available.

# SECTION 12 ECOLOGICAL INFORMATION

Not available

#### SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

#### SECTION 14 TRANSPORT INFORMATION

No classification assigned.

LAND TRANSPORT ADR/RID: No classification assigned.

AIR TRANSPORT IATA/ICAO: No classification assigned.

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MARITIME TRANSPORT IMDG: No classification assigned.
SECTION 15 REGULATORY INFORMATION
U.S. REGULATIONS:
  TSCA INVENTORY STATUS: Y
  TSCA 12(b) EXPORT NOTIFICATION: Not listed.
  CERCLA SECTION 103 (40CFR302.4): N
  SARA SECTION 302 (40CFR355.30): N
  SARA SECTION 304 (40CFR355.40): N
  SARA SECTION 313 (40CFR372.65): N
  SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):
   ACUTE: N
   CHRONIC: Y
   FIRE: N
   REACTIVE: N
   SUDDEN RELEASE: N
  OSHA PROCESS SAFETY (29CFR1910.119): N
STATE REGULATIONS:
  California Proposition 65: Y
   Known to the state of California to cause the following:
     Silica, crystalline (airborne particles of
     respirable size)
       Cancer (Oct 01, 1988)
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## SECTION 16 OTHER INFORMATION

EC NUMBER (EINECS): 269-111-1

EUROPEAN REGULATIONS:

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