



S.S Depocular ve Ardiyeciler Koop. 102 Ada 2 Pafta 1.Kat Başakşehir, İSTANBUL

Telefon

90 - 212 - 675 05 39 pbx

Fax No

90 - 212 - 675 08 02

Web

: www.askimya.com

E-mail

info@askimya.com

# MATERIAL SAFETY DATA SHEET

Date of revision:

Doc M Rev 00 page 1/5

#### SECTION 1

## IDENTIFICATION/PREPARATION/COMPANY

Commercial name : Sodium Cyanide

Synonyms: White cyanide, Sodium Cyanide Briquettes

Trading contact

In case of emergency: in Korea call 052 259 7648 in the daytime or 052 259 7617 in the

nighttime

dizziness may occur.

in other countries inquire after local information centre

### SECTION 2 COMPOSITION

| Hazardous ingre | edients: HCN, NaOH  |                               |
|-----------------|---------------------|-------------------------------|
| CAS no.         | : 143-33-9          | Customs no. : 2837111000      |
| EINECS no.      | : 205-599-4         | Hazchem code : T + very toxic |
| EEC no.         | : 006-007-00-5      | R-phrases : 26/27/28-32 .     |
| SIN/UN no.      | : 1689              |                               |
| ADR no.         | : 6.1 41a           | S-phrases : 7-28-29-45        |
| CHIP no.        |                     |                               |
| IMDG page no.   | : 6.1(Page no.6257) |                               |

## SECTION 3 HAZARD IDENTIFICATION

| Inhalation   | : - SHORT TERM EFFECTS: May cause irritation, possibly severe.              |
|--------------|---|
|              | Additional effects may include suffocation.                                 |
|              | - LONG TERM EFFECTS: May cause effects as in short term exposure.           |
|              | Additional effects may include nausea, headache and dizziness.              |
| Skin contact | : - SHORT TERM EFFECTS : May cause burns. Additional effects may include    |
|              | suffocation.  |
|              | - LONG TERM EFFECTS: In addition to effects from short term exposure,       |
|              | rash, itching, nausea, headache and dizziness may occur.                    |
| Eye contact  | : - SHORT TERM EFFECTS: May be fatal if absorbed. May cause irritation pos- |
|              | sibly severe. May cause effects as reported in short term ingestion.        |
|              | Additional effects may include blurred vision and suffocation.              |
|              | - LONG TERM EFFECTS: Same effects as short term exposure.                   |
| Ingestion    | : - SHORT TERM EFFECTS: May be fatal if swallowed. May cause burns.         |
|              | Additional effects may include rash, nausea, chest pain, gasping,           |
|              | irregular heartbeat, headache, blindness, bluish skin color, suffocation    |
|              | , lung congestion, paralysis, convulsions and coma.                         |

- LONG TERM EFFECTS: In addition to effects from short term exposure,

Date of revision:

Doc M Rev 00 2/5 page

| SECTION | 4 | FIRST | AID | MEASURES |  |
|---------|---|-------|-----|----------|--|
|         |   |       | -   |          |  |

| SECTION 4    | FIRST AID MEASURES   |
|--------------|--|
| General      | Remove contaminated or saturated clothing immediately and dispose of safe-   |
|              | -1. Dittie directed beoble out of danger and   |
| Inhalation   | : FIRST AID - remove from exposure. Give amyl nitrite inhalation, 1 ampule   |
|              | (0.2 mL) every 5 minutes. If breathing has stopped or is depressed oxygen  |
|              | to maintain high blood/oxygen tension. Get medical attention immediately.  |
|              | IDICIDUACH, HAHADOOK OF POIGONING 1944 HJ 1  |
| Skin contact | : FIRST AID - Remove contaminated clothing and shoes and wash affected   |
|              | areas with soap or mild detergent and large amount of water, taking care   |
|              | not to contact the chemical Got modical attending of water, taking care  |
|              | not to contact the chemical. Get medical attention immediately.(Cain, Emergency Treatment and Management, 7th Ed)  |
| Eye contact  | : FIRST AID - Wash eyes immediately with large amounts of water, occasionally  |
|              | lifting upper and lowe lids until no orider amounts of water, occasionally   |
|              | lifting upper and lowe lids, until no evidence of chemical remains(at least 15-20 minutes). Continue irrigation with a second chemical remains (at least |
|              | 15-20 minutes). Continue irrigation with normal saline until pH has  |
|              | returned to normal(30-60 minutes). Cover with sterile bandages. get medical attention immediately.   |
| Ingestion    | : FIRST AID - If patient is asymptomatic administer syrup of ipecac and/or   |
|              | perform gastric lavage using tan water dilata to syrup of ipecac and/or  |
|              | perform gastric lavage, using tap water, dilute sodium bicarbonate solution or preferably if available dilute sets.                                      |
|              | or preferably, if available, dilute potassium permanganate solution(1:5000).   |
|              | Activated charcoal is ineffective. If breathing has stopped, give  |
|              | artificial respiration. Maintain airway. Oxygen therapy may be of value  |
|              | in combination with the antidote(Gosselin, Clinical Toxicology of  |
|              | Commercial Products 5th Ed.). Treatment should be perform by qualified   |
|              | medical personnel. Get medical attention immediately.  |

# SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media : Alkali powder quenching agent

Extinguishing media to avoid : Water, carbon dioxide

Exposure hazards : In the case of fire, hydrocyanic acid may be released

Special protection for firemen: In the case of fire, wear respiratory protective

equipment independent of surrounding air and chemical

protective suit

| Date of | revision: |      |     |  |
|---------|-----------|------|-----|--|
| Doc M   | Rev 00    | page | 3/5 |  |

| SECTION    | C | ACCIDENTAL   | DETEACE      | MPACTIDEC  |
|------------|---|--------------|--------------|------------|
| DEAL ILLIN |   | MULLIPHIE MI | PARTIE PARTE | MEGATILITE |

| Personl precautions   | : Be aware of stringent hygienic regulations and wear protective |
|-----------------------|--|
|                       | clothing, goggles and a NIOSH/MSHA approved respirator. Avoid    |
|                       | formation of dust. Ensure sufficient ventilation. Avoid skin     |
|                       | contact because of the danger of skin absorption                 |
| Environmental precaut | ions: Do not let the material get into the public sewage system. |
|                       | Cyanide-containing sewage water and solutions must be            |
|                       | decontaminated before entering a public canal network or         |
|                       | stretch of water   |
| Spillage control      | : Absorb mechanically and collect in a suitable container.       |
|                       | Refer to manufacturer/supplier for information on recovery/      |
|                       | recycling.   |

| SECTION 7 | STORAGE AND HANDLING   |
|-----------|--|
| Handling  | : Store under lock and key or in a way that only skilled persons have access to it |
| Storage   | : Keep container tightly sealed and store ina dry, well-ventilated place           |

| SECTION 8 EXPOSURE CONT | ROLS                |  |
|-------------------------|---------------------|--|
| PERSONAL PROTECTION     |                     |  |
| General                 | : All precautionary | measures indicated have to observed.           |
|                         | No eating, drinking | ng, Smoking or snuffing tobacco at work.       |
|                         | After contact wit   | h skin, wash immediately with plenty of water. |
|                         | Preventive skin p   | rotective recommended. If the limites at the   |
|                         | workplace are exc   | eeded and/or larger amounts are released       |
|                         | (leakage, spilling  | , etc.)the indicated respiratory protection    |
|                         |                     | there is the possibility of skin/eye contact   |
|                         |                     | d/eye/body protection should be used. Keep     |
|                         | clothes separate.   |  |
| Respiratory protection  |                     | id occurs; respiratory protective equipment    |
|                         |                     | rrounding air. Note time limit for wearing     |
|                         | respiratory prote   | ctive equipment. If dust occurs; respirator    |
|                         | with B2-B3 combina  | ation filter.                                  |
| Skin protection         | : Chemical protect: | ive suit. During cleaning work; rubber or      |
|                         | plastic boots. In   | mediately change moistened and saturated       |
|                         | boots. Immediate    | ly change moistened and saturated work         |
|                         | clothes             |  |
| Eye protection          | : Basket-shaped gla | asses  |
| Hand protection         | : Protective glove  | es; rubber or plastic                          |

Date of revision:

Doc M Rev 00 page 4/5

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| Appearance/odour     | : Colorless to white deliquescent briquettes |
|----------------------|--|
| pH-value             | : 11 - 12 (20g/1 water)                      |
| Melting point        | : 564℃                                       |
| Boiling point        | : 1,496℃                                     |
| Density              | : 1.61g/cm3 at 20°C(water = 1)               |
| Vapour density       | : 0.10K Pa(at 800°C)                         |
| Vapour pressure      | : lmmHg (817°C)                              |
| Flash point          | : not applicable                             |
| Oxidizing Properties | : not applicable                             |
| Explosive properties | : not applicable                             |
| Auto ignition temp.  | : not applicable                             |
| Solubility           | : 37 weight % (at 20°C in water)             |

SECTION 10 STABILITY / REACTIVITY

Conditions to avoid : Stable up to 1,500

Materials to avoid : Under the influence of acid (as well as carbon dioxide)

hydrocyanic acid is released which is combustible and may react

with air to explosive gas mixtures

Hazardous decomposition products: Hydrocyanic acid

#### SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation : ACUTE EXPOSURE - May cause irritation to the nose and mucous membranes.

Mists of alkali cyanides, in concentrations slightly more congestion.

CHRONIC EXPOSURE - Exposure to low levels of cyanide compounds over long

CHRONIC EXPOSURE - Exposure to low levels of cyanide compounds over long periods of time, is reported to cause loss of appetite, headache, weakness,

nausea, dizziness.

Skin contact: Contact with aqueous solution or solid on moist skin may cause redness

pain, burns, contact dermatitis and ulcers which are slow to heal.

Eye contact: The lethal dose for red vision, and serious corneal burns.

Ingestion : Massive doses may result in immediate unconsciousness, oftern with

convulsions and death, usually 1-15 minutes.

Date of revision:

page 5/5 Doc M Rev 00

## SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity : Acute fish toxicity - LC50 (-h) 0.07 cyanide mg/l. Leuciscus idus

melanotus, literature Acute toxicity to crustaceans - EC50 (-h)

Daphnia magna 3mg/l, cyanide, literature

Bacterial toxicity : Escherichia coli, EC50 (-h) 0.0004 cyanide mg/l, literature

#### SECTION 13 DISPOSAL CONSIDERATIONS

Disposal of product and packaging according to E.C. or local authorities regulations

## SECTION 14 TRANSPORT INFORMATION

Hazard warning : Toxic Hazchem symbol : 1689 UN no. : 6257 (IMDG code : 6.1) IMDG page no. ADR Class : 6.1 4 la Packaging group : PG I : 6.1-04 **EmS** 

#### SECTION 15 REGULATORY INFORMATION

: Sodium Cyanide Briquettes Label name

Hazchem symbol

: 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed R-phrases

Contact with acids liberates very toxic gas

: (1/2) Keep locked up and out of reach of children S-phrases

Keep container tightly closed

After contact with skin, wash immediately with water

Do not empty into drains

In case of accident or if you feel unwell, seek medical advice

immediately(show the label where possible)

Concentration limits:

#### SECTION 16 FURTHER INFORMATION

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