

## GHS Classification

**ID1385**

**Calcium acetylide**

**CAS 75-20-7**

Date Classified: Mar. 23, 2006

**Physical Hazards**

Reference Manual: GHS Classification Manual (Feb. 10, 2006)

| Hazard class                                                                  | Classification                                         | symbol | signal word | hazard statement                                                              | Rational for the classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------|--------------------------------------------------------|--------|-------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Explosives                                                                  | Not applicable                                         | -      | -           | -                                                                             | There are no chemical groups associated with explosive properties present in the molecules.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2 Flammable gases                                                             | Not applicable                                         | -      | -           | -                                                                             | Solid (GHS definition)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3 Flammable aerosols                                                          | Not applicable                                         | -      | -           | -                                                                             | Not aerosol products                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4 Oxidizing gases                                                             | Not applicable                                         | -      | -           | -                                                                             | Solid (GHS definition)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5 Gases under pressure                                                        | Not applicable                                         | -      | -           | -                                                                             | Solid (GHS definition)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6 Flammable liquids                                                           | Not applicable                                         | -      | -           | -                                                                             | Solid (GHS definition)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 7 Flammable solids                                                            | Not classified                                         | -      | -           | -                                                                             | UNRTDG Class: 4.3. Non-combustible under dry condition (Hommel, 1991) Card No.243)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 8 Self-reactive substances and mixtures                                       | Not applicable                                         | -      | -           | -                                                                             | There are no chemical groups associated with explosive or self-reactive properties present in the molecule.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 9 Pyrophoric liquids                                                          | Not applicable                                         | -      | -           | -                                                                             | Solid (GHS definition)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10 Pyrophoric solids                                                          | Not classified                                         | -      | -           | -                                                                             | UNRTDG Class: 4.3. Non-combustible under dry condition (Hommel, 1991, Card No.243)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 11 Self-heating substances and mixtures                                       | Not classified                                         | -      | -           | -                                                                             | UNRTDG Class: 4.3. Non-combustible under dry condition (Hommel, 1991, Card No.243)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 12 Substances and mixtures, which in contact with water, emit flammable gases | Classification not possible (Category 1 or Category 2) | Flame  | Danger      | In contact with water releases flammable gases which may ignite spontaneously | Since reaction with water changes by the purity, particle form, and particle diameter of a sample, a given study is carried out and it will be classified into one of the followings. As a result of an examination, the sample with the tendency of reacting violently with the water and generating gas to ignite spontaneously or with the flammable/combustible gas generating speed of 10L/minute/kg or higher (equivalent to PG I) is classified into category 1, and the sample with the tendency of reacting rapidly with the water and indicating spontaneous combustibility but with the flammable/combustible gas generating speed that is under 10L/minute/kg and is 20L/hour/kg or higher (equivalent to PG II) is classified into category 2. |
| 13 Oxidizing liquids                                                          | Not applicable                                         | -      | -           | -                                                                             | Solid (GHS definition)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 14 Oxidizing solids                                                           | Not applicable                                         | -      | -           | -                                                                             | Containing no oxygen, chlorine and fluorine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 15 Organic peroxides                                                          | Not applicable                                         | -      | -           | -                                                                             | Inorganic substance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 16 Corrosive to metals                                                        | Not classified                                         | -      | -           | -                                                                             | UNRTDG Class: 4.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Health Hazards**

| Hazard class                              | Classification                                                                                          | symbol    | signal word | hazard statement                        | Rational for the classification                                                                                  |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------|-------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 1 Acute toxicity (oral)                   | Classification not possible                                                                             | -         | -           | -                                       | No data available                                                                                                |
| 1 Acute toxicity (dermal)                 | Classification not possible                                                                             | -         | -           | -                                       | No data available                                                                                                |
| 1 Acute toxicity (inhalation: gas)        | Not applicable                                                                                          | -         | -           | -                                       | Solid (GHS definition)                                                                                           |
| 1 Acute toxicity (inhalation: vapour)     | Classification not possible                                                                             | -         | -           | -                                       | No data available                                                                                                |
| 1 Acute toxicity (inhalation: dust, mist) | Classification not possible                                                                             | -         | -           | -                                       | No data available                                                                                                |
| 2 Skin corrosion / irritation             | Category 1A-1C                                                                                          | Corrosion | Danger      | Causes severe skin burns and eye damage | It was set as Category 1A-1C from description that it is the caustic (ICSC (J), (1995), and SITTIG (4th, 2002)). |
| 3 Serious eye damage / eye irritation     | Category 1                                                                                              | Corrosion | Danger      | Causes serious eye damage               | It is set as Category 1 from description that it is caustic (ICSC(J)(1995) and SITTIG (4th, 2002)).              |
| 4 Respiratory/skin sensitization          | Respiratory sensitization: Classification not possible; Skin sensitization: Classification not possible | -         | -           | -                                       | Respirator: no data available.<br>Skin: since data is insufficient, it cannot classify.                          |
| 5 Germ cell mutagenicity                  | Classification not possible                                                                             | -         | -           | -                                       | No data available                                                                                                |
| 6 Carcinogenicity                         | Classification not possible                                                                             | -         | -           | -                                       | No data available                                                                                                |

|    |                                                                      |                                 |               |         |                                                 |                                                                                                                                                                                                                                                                                                             |
|----|----------------------------------------------------------------------|---------------------------------|---------------|---------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7  | Toxic to reproduction                                                | Classification not possible     | -             | -       | -                                               | No data available                                                                                                                                                                                                                                                                                           |
| 8  | Specific target organs/systemic toxicity following single exposure   | Category 2 (respiratory organs) | Health hazard | Warning | May cause damage to organs (respiratory organs) | From the description in ICSC (J) (1995) and SITTIG (4th, 2002) that it is the caustic, and the description in ICSC (J) (1995), HSFS (2003) and SITTIG (4th, 2002) that pulmonary edemas is caused when inhaling it, and respiratory system was judged as target organ, so it was considered as Category 2 . |
| 9  | Specific target organs/systemic toxicity following repeated exposure | Classification not possible     | -             | -       | -                                               | Classification not possible due to lack of data                                                                                                                                                                                                                                                             |
| 10 | Aspiration hazard                                                    | Classification not possible     | -             | -       | -                                               | No data available                                                                                                                                                                                                                                                                                           |

### Environmental Hazards

| Hazard class                                      | Classification              | symbol | signal word | hazard statement | Rational for the classification |
|---------------------------------------------------|-----------------------------|--------|-------------|------------------|---------------------------------|
| 11 Hazardous to the aquatic environment (acute)   | Classification not possible | -      | -           | -                | No data available               |
| 11 Hazardous to the aquatic environment (chronic) | Classification not possible | -      | -           | -                | No data available.              |