

2 WEST PARK ROAD  
HAVERTOWN, PA 19083

1-800-247-6665  
610-853-1130

## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : ATP  
Product Number : 387  
Brand : CHRONO-PAR®  
CAS-No. : 34369-07-8

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Chrono-log Corp  
2 West Park Road  
Havertown, PA 19083  
USA

Telephone : 1-610-853-1130  
Email: chronolog@chronolog.com

#### 1.4 Emergency telephone number

Emergency Phone # : 1-610-853-1130

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

#### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms : ATPdisodiumhydrate  
Adenosine 5'-triphosphate (ATP) disodium salt hydrate  
ATP Standard  
Formula :  $C_{10}H_{14}N_5Na_2O_{13}P_3 \cdot xH_2O$   
Molecular Weight : 551.14 g/mol  
CAS-No. : 34369-07-8  
EC-No. : 213-579-1

No components need to be disclosed according to the applicable regulations.

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### If inhaled

If breathed in, move person into fresh air.

##### In case of skin contact

Immediately remove all contaminated clothing. Rinse skin with water/shower.

##### In case of eye contact

Rinse out with plenty of water. Remove contact lenses.

##### If swallowed

Drink water ( two glasses at most). Consult doctor if feeling unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

#### **4.3 Indication of any immediate medical attention and special treatment needed**

no data available

### **5. FIREFIGHTING MEASURES**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder.

##### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

#### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Oxides of phosphorus, Sodium oxides. Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

#### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus.

#### **5.4 Further information**

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

#### **6.2 Environmental precautions**

Do not let product enter drains.

#### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### **6.4 Reference to other sections**

For disposal see section 13.

### **7. HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**

For precautions see section 2.2.

#### **7.2 Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Keep container tightly closed. Dry.

**Storage stability:** Recommended storage temperature: -20 °C. Storage Class (TRGS 510): 11: Combustible Solids

#### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1 Control parameters**

##### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

#### **8.2 Exposure controls**

##### **Appropriate engineering controls**

Change contaminated clothing. Wash hands after working with substance.

##### **Personal protective equipment**

###### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety Glasses.

###### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Full contact

Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min  
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### Splash contact

Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min  
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### Respiratory protection

Required when dusts are generated.

Recommendations on filtering respiratory protection are based on the following standards: DIN EN143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

### Control of environmental exposure

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |   |                     |
|---|---------------------|
| a) Appearance Form:                             | powder, lyophilized |
| Color:  | white               |
| b) Odor   | no data available   |
| c) Odor Threshold                               | no data available   |
| d) pH   | no data available   |
| e) Melting point/freezing point                 | no data available   |
| f) Initial boiling point and boiling range      | no data available   |
| g) Flash point                                  | no data available   |
| h) Evaporation rate                             | no data available   |
| i) Flammability (solid, gas)                    | no data available   |
| j) Upper/lower flammability or explosive limits | no data available   |
| k) Vapor pressure                               | no data available   |
| l) Vapor density                                | no data available   |
| m) Relative density                             | no data available   |
| n) Water solubility                             | no data available   |
| o) Partition coefficient: n-octanol/water       | no data available   |
| p) Auto-ignition temperature                    | no data available   |

q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

## 9.2 Other safety information

no data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

### 10.2 Chemical stability

Product is chemically stable under standard ambient conditions (room temperature).

### 10.3 Possibility of hazardous reactions

Violent reactions possible with strong oxidizing agents.

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute toxicity estimate Oral – 2,500 mg/kg  
(Calculation method)

LS50 Oral – Rat – female - > 2,000 mg/kg  
(OECD Test Guideline 423)

Remarks: (In analogy to similar compounds) The value is given in analogy to the following substances: Adenosine 5"-triphosphate disodium salt

Inhalation: no data available

Dermal: no data available

no data available

#### Skin corrosion/irritation

Skin- reconstructed human epidermis (RhE)

Result: No skin irritation – 15 min  
(OECD Test Guideline 439)

Remarks: (in analogy to similar products) The value is given in analogy to the following substances – adenosine 5"-triphosphate disodium salt

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

Test type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: adenosine 5"-triphosphate disodium salt

#### Carcinogenicity

no data available

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: AU7417000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

no data available

Toxicity to daphnia and other aquatic invertebrates:

semi-static test EC50 – Daphnia magna (Water flea)- > 43.8 mg/l – 48h  
(OECD Test Guideline 202)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: adenosine 5"-triphosphate disodium salt

Toxicity to algae:

Static test ErC50 – Desmodesmus subspicatus (Green algae) - > 100 mg.l – 72 h  
(OECD Test Guideline 201)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: adenosine 5"-triphosphate disodium salt

**12.2 Persistence and degradability**

Biodegradability:

Aerobic – Exosure time 28 d

Result: 83% - Readily biodegradable.

(OECD Test Guideline 301F)

Remarks: (in analogy to similar compounds)

The value is given in analogy to the following substances: adenosine 5"-triphosphate disodium salt

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

##### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste.

##### Contaminated packaging

Handle uncleaned containers like the product itself.

### 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

#### Further information

Not classified as dangerous in the meaning of transport regulations.

### 15. REGULATORY INFORMATION

#### SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

No SARA Hazards

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Adenosine 5'-(tetrahydrogen triphosphate), disodium salt hydrate	34369-07-8	

#### New Jersey Right To Know Components

	CAS-No.	Revision Date
Adenosine 5'-(tetrahydrogen triphosphate), disodium salt hydrate	34369-07-8	

### 16. OTHER INFORMATION

#### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.