

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product name:

Hexamethylphosphoricacid triamide-d18

### 1.1. Catalog No.:

1111

### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical  
uses: R&D

### 1.3. Uses advised against:

ARMAR (Europa) GmbH  
Permoserstrasse 15

04318 Leipzig  
Germany

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## 2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).  
Classification Acute toxicity - Oral Category 3 Acute toxicity - Dermal Category 3 Acute toxicity - Inhalation (Dusts/Mists)  
Category 3

### 2.2. Label elements

#### 2.2.1. Pictogram



#### 2.2.2.

Label elements Signal word Danger

Hazard statements

Toxic if swallowed Toxic in contact with skin Toxic if inhaled

Precautionary Statements - Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell

Remove/Take off immediately all contaminated clothing Wash contaminated clothing before reuse  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth  
Precautionary Statements - Storage Store locked up Store in a well-ventilated place. Keep container tightly closed  
Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant  
Hazards not otherwise classified (HNOC) Hazards not otherwise classified (HNOC) Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component: Hexamethylphosphortriamid e-D18  
Classification: Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331)  
Concentration: <=100%

#### 3.1.1. Formula

C6D18N3OP

#### 3.1.2. Molecular Weight (g/mol)

197.31

#### 3.1.3. CAS-No.

51219-90-3

### 4. FIRST AID MEASURES

First Aid Measures General advice Consult a physician if necessary. Remove to fresh air. Eye contact Wash with plenty of water. Skin Contact Wash skin with soap and water. Inhalation Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water.  
Most important symptoms and effects, both acute and delayed Symptoms No information available.  
Indication of any immediate medical attention and special treatment needed Note to physicians Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable Extinguishing Media None.  
Specific hazards arising from the chemical Specific hazards arising from the chemical No information available. Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx).  
Explosion data Sensitivity to Mechanical Impact No information available. Sensitivity to Static Discharge No information available.  
Protective equipment and precautions for firefighters Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Personal precautions Ensure adequate ventilation, especially in confined areas.  
Environmental precautions Environmental precautions See Section 12 for additional Ecological Information.  
Methods and material for containment and cleaning up Methods for containment Prevent further leakage or spillage if safe to do so. Methods for cleaning up Pick up and transfer to properly labeled containers.

### 7. HANDLING AND STORAGE

Precautions for safe handling Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.  
Conditions for safe storage, including any incompatibilities Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Incompatible materials None known based on information supplied.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.  
Appropriate engineering controls Engineering Controls Showers Eyewash stations Ventilation systems  
Individual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side

shields (or goggles). Skin and Body Protection Wear protective gloves and protective clothing. Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid Appearance No information available Odor No information available  
Property Values pH No information available Melting point/freezing point No information available Boiling point No information available Flash point No information available Density No information available Evaporation rate No information available Upper flammability limits No information available Lower flammability limit No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available Decomposition temperature No information available Kinematic viscosity No information available Explosive properties No information available Oxidizing properties No information available

## 10. STABILITY AND REACTIVITY

Reactivity Not applicable  
Chemical stability Stable under recommended storage conditions. Possibility of Hazardous Reactions None under normal processing. Hazardous polymerization No information available. Conditions to avoid Extremes of temperature and direct sunlight. Incompatible materials Strong oxidizing agents. Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NO<sub>x</sub>)

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation No data available. Eye contact No data available. Skin Contact No data available. Ingestion No data available.  
Information on toxicological effects Symptoms No information available.  
Delayed and immediate effects as well as chronic effects from short and long-term exposure Chronic Toxicity No information available.  
Numerical measures of toxicity - Product Information Unknown acute toxicity No information available The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral) 100 mg/kg ATEmix (dermal) 300 mg/kg ATEmix (inhalation-dust/mist) 0.5 mg/l

## 12. ECOLOGICAL INFORMATION

Ecotoxicity May cause long lasting harmful effects to aquatic life  
100% of the mixture consists of component(s) of unknown hazards to the aquatic environment.  
Persistence and degradability No information available. Bioaccumulation No information available. Mobility No information available.

## 13. DISPOSAL CONSIDERATIONS

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.  
Contaminated packaging Do not reuse container.

## 14. TRANSPORT INFORMATION

DOT UN/ID no UN2810 Hazard Class 6.1 Packing Group III Proper shipping name Poison B, liquid, n.o.s Description UN2810, Poison B, liquid, n.o.s, 6.1, III Emergency Response Guide Number 153  
IMDG UN/ID no UN2810 Hazard Class 6.1 Packing Group III Proper shipping name Toxic liquid, organic, n.o.s. Description UN2810, Toxic liquid, organic, n.o.s., 6.1, III Special Provisions IB3, T7, TP1, TP28 EmS-No F-A, S-A  
IATA UN/ID no UN2810 Hazard Class 6.1 Packing Group III Proper shipping name Toxic liquid, organic, n.o.s.\* Description UN2810, Toxic liquid, organic, n.o.s.\*, 6.1, III

## 15. REGULATORY INFORMATION

International Inventories  
All of the components in the product are on the following Inventory lists Europe (EINECS/ELINCS/NLP)  
US Federal Regulations  
SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories Acute health hazard No Chronic Health Hazard No Fire hazard No Sudden release of pressure hazard No Reactive hazard No  
CWA (Clean Water Act) This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).  
US State Regulations  
California Proposition 65 This product does not contain any Proposition 65 chemicals.  
U.S. State Right-to-Know Regulations This product does not contain any substances regulated by state right-to-know regulations

## 16. OTHER 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. For lab use only!