

**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 07.10.2015

Version number 1

Revision: 07.10.2015

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

· **1.1 Product identifier**

- **Trade name: 114B2: ACTOK Pyrosticker models ACT P, ACT 15, ACT 25, ACT 45, ACT 60**

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

No further relevant information available.

- **Application of the substance / the mixture**

Article

Extinguishing agent

Suitable for extinguishing fires of classes A2, B, C.

- **Uses advised against**

Not suitable for extinguishing metal fires.

Not suitable for extinguishing of smoldering of solid combustible substances.

· **1.3 Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

PyroChemica-Center LLC

RU-125412, Moscow

Korovinskoe highway 35 a

Tel. +7(495)783-68-00

Russian Federation

info@actokpro.com

www.actokpro.com

- **Informing department:**

Technical Service:

Tel. +7(495)783-68-00

- **1.4 Emergency telephone number:** Tel. +7(495)783-68-00

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to the CLP regulation.

· **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

- **Additional information:**

For this product (substance/mixture/article) there is not obligatory requirement to prepare a safety data sheet according article 31 of the regulation (EC) 1907/2006. This information sheet gives relevant details according article 32 of the mentioned regulation.

- **Information pertaining to particular dangers for man and environment**

Contains a component, which is subject to EC regulation 1005/2009 on substances that deplete the ozone layer.

· **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

· **Description:** Foil containing thermically activatable, micro encapsulated fire extinguishing media.

#### · Dangerous components:

CAS: 124-73-2	1,2-dibromotetrafluoroethane	☠ Ozone 1, H420	25 - 50%
EINECS: 204-711-9			

· **Additional information** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

· **General information** Measures are valid for damaged products and leaking components.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

#### · After skin contact

The product is not skin irritating.

Rinse with water.

In case of permanent aches and pains please go and see the doctor.

#### · After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

#### · After swallowing

Swallowing is not considered to be a possible way of exposure.

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed** Anaesthetic effects

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

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### · Suitable extinguishing agents

The product itself does not burn.

Use fire fighting measures that suit the environment.

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

Formation of poisonous gases during heating or in fires.

Can be released in case of fire:

Fluorohydrocarbons

Chlorinated hydrocarbons

(Traces)

Phosgene gas

#### 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

#### 6.2 Environmental precautions:

Prevent material from reaching sewage system, holes and cellars.

#### 6.3 Methods and material for containment and cleaning up:

Collect mechanically.

Absorb liquid components with liquid-binding material.

Dispose of the material collected according to regulations.

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Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

No special precautions necessary if used correctly.

Ensure sufficient ventilation.

Do not inhale gases/vapours/aerosols.

Avoid contact with eyes and skin.

· **Information about protection against explosions and fires:**

Store it away from ignition sources or open fire.

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

· **Storage**

· **Requirements to be met by storerooms and containers:**

Store only undamaged original packaging drums.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Protect from heat and direct sunlight.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **CAS No. Designation of material % Type Value Unit**

· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

The embedded extinguishing agent has narcotic properties in case of release.

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Wash hands during breaks and at the end of the work.

· **Breathing equipment:**

Not necessary if room is well-ventilated.

Use a breathing protection if high concentrations are present.

Filter Type A.

· **Protection of hands:**

No chemical-protective gloves required.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses recommended during refilling.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

- **Form:** Foil
- **Colour:** Different according to colour
- **Odour:** odourless
- **Odour threshold:** Not determined.

· **pH-value:** Not determined.

##### · Change in condition

- **Melting point/Melting range:** Not determined
- **Boiling point/Boiling range:** Not determined

· **Flash point:** Not applicable

· **Inflammability (solid, gaseous)** Not applicable.

##### · Ignition temperature:

- **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

##### · Critical values for explosion:

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Vapour pressure:** Not applicable.

- **Density** Not determined
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.

##### · Solubility in / Miscibility with

- **Water:** Not miscible or difficult to mix

· **Partition coefficient (n-octanol/water):** Not determined.

##### · Viscosity:

- **dynamic:** Not determined.
- **kinematic:** Not determined.

· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

#### · 10.2 Chemical stability

##### · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.  
Thermal decomposition > 400 °C.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known

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- **10.4 Conditions to avoid** Temperatures greater than 80 °C.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
None in case of intended use and storage in compliance with instructions.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
    - **Primary irritant effect:**
      - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
      - **Serious eye damage/irritation**  
Based on available data, the classification criteria are not met.
    - **Respiratory or skin sensitisation**  
Based on available data, the classification criteria are not met.
  - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
    - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
    - **Carcinogenicity** Based on available data, the classification criteria are not met.
    - **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - **STOT-single exposure** Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
  - **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
  - **Additional ecological information:**
    - **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
Avoid emission into atmosphere. Product shows a highatmospheric residence time and is justified suspected to influence the O2/O3 balance in the stratosphere.
- **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Contact manufacturer for recycling information.

- **European waste catalogue**

14 00 00	WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08)
14 06 00	waste organic solvents, refrigerants and foam/aerosol propellants

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14 06 02*	other halogenated solvents and solvent mixtures
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03 00	off-specification batches and unused products
16 03 05*	organic wastes containing dangerous substances

- **Uncleaned packagings:**

- **Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

### SECTION 14: Transport information

- |   |                         |
|---|-------------------------|
| · <b>14.1 UN-Number</b><br>· <b>ADR, ADN, IMDG, IATA</b>                              | Void                    |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, ADN, IMDG, IATA</b>                | Void                    |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, ADN, IMDG</b><br>· <b>Class</b> | Void                    |
| · <b>IATA</b><br>· <b>Class</b>   | Void<br>Not Restricted. |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                               | Void                    |
| · <b>14.5 Environmental hazards:</b>  | Not applicable.         |
| · <b>14.6 Special precautions for user</b>  | Not applicable.         |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>      | Not applicable.         |
| · <b>UN "Model Regulation":</b>   | Void                    |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
    - **Labelling according to Regulation (EC) No 1272/2008** Void
      - **Hazard pictograms** Void
      - **Signal word** Void
      - **Hazard statements** Void
    - **Directive 2012/18/EU**
      - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
    - **National regulations**
      - **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- |  |
|--|
| · <b>Substances of very high concern (SVHC) according to REACH, Article 57</b> |
| None of the ingredients is contained.  |
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H420 Harms public health and the environment by destroying ozone in the upper atmosphere

· **Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:

DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,

phone: (+49) 511 42079 - 0, reach@dekra.com.

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· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Ozone 1: Hazardous for the ozone layer, Category 1