

Trade name: **AEROSOL-Extinguishing Generator Dynameco****1. Substance / preparation- and manufacturer**

Description substance or preparation

Trade name: **AEROSOL- Extinguishing Generator****Product variations with different ignition devices:**

Electrically / mechanically device:	Thermally device:
Dynameco 200-E02	Dynameco 200-TA08
Dynameco 300-E02	Dynameco 300-TA08
Dynameco 2000-E02	Dynameco 2000-TA08

Application of the substance / the preparation

Extinguishing fires in objects and/or rooms

Manufacturer / supplier:

Dynamit Nobel Defence GmbH**Dr.-Hermann-Fleck-Allee 8****57299 Burbach, Germany****Phone: +49 (0) 2736 46-0, Fax: +49 (0) 2736 46-2002**

Notifying division:

Product safety, Phone: +49(0)273646-2001

Emergency information:

Phone: +49 (0) 273646-1130, Fax: +49(0)273646-1138**2. Composition / details on components**

Chemical characterization:

Composite of nitroguanidine, aerosol generating substance and binding material

Description:

Modular pyrotechnical object consisting of cylindrical steel sheet housing, ignition device, fire extinguishant composition, reaction compartment and cooling unit.**The ignition device can be triggered electrically, mechanically or thermally by means of fire detection systems. The fire extinguishant composition is a pyrotechnical charge containing non-toxic components.**

Hazardous components:

Nitroguanidine

CAS-No. name as per EC directive:

CAS-No. **556-88-7 / 1- Nitroguanidine**EINECS-No.: **209-143-5**Content: **approx. 18 %**

Ident. letter, R-phrases:

–, **R 6 explosive with or without contact with air**

3. Possible hazards

Special hazard warnings for man and environment:

Nitroguanidine in dry condition has the ability to explode

Other hazards:

The extinguishing generator does not present an explosion danger, there is only a hot Aerosol stream escaping after ignition. In packed condition the effects are essentially limited to the package itself. The Aerosol extinguishing generator can be ignited by means of a fire. Hot Aerosol is generated in the close up area of the outlets.

4. First aid measures

General information:

Seek immediate medical help in case of symptoms which are obviously due to inhalation of combustion gases

Further information

If inhaled:

Guide victim to fresh air, get medical advice in case of unconsciousness recumbent position and transportation in a stable presentation when breathing stands still apply artificial respiration, call doctor

5. Fire-fighting measures**5.1 Suitable extinguishers:**

In case of fire of the packing or in the neighbourhood:

Water

Extinguishing powder

Foam

Unsuitable extinguishers:

None

Special hazard according substance or preparation self, in case of the product or emerging gases:

Hazard gases content maybe: Carbon monoxide, carbon dioxide, Aerosol and smoke.

Special protective equipment of fire fighting:

None

6. Measures in the event of accidental escape

Individual related measures:

None

Environmental measures :

None

Procedure of cleaning:

Attend cleaning advice

7. Handling and storage

Handling

Protective measures when handling:

Use only in fire extinguishing installations according to instructions for use

Do not keep in hand during burning

Keep away from heat

Keep away from heat and open fire

Storage

Storage rooms and container requirements

Storage conditions:

Keep container cool and dry

and protect from heat

Storage class:

1.4

Storage group:

S

Storage stability / life:

5 years

8. Exposure and personal protection

Additional information on design of technical facilities

None

Workplace-related limit values subject to monitoring

MAK-value: **n. a.**

Personal protective equipment:

Respiratory protection: **not required**

Hand protection: **not required**

Eye protection: **not required**

Body protection: **not required**

9. Physical and chemical properties

Appearance

Form: **metal housing**

Colour: **n. a.**

Odour: **n. a.**

<p>Safety relevant data value/range, unit, method (67/548/EEC)</p> <p>Change of state: n. a. Melting point in degrees C: n. a. Boiling point in degrees C (at hPa): n. a. Thermal decomposition from, in degrees: n. a. Flash point in degrees C: n. a. Ignition temperature in degrees C: n. a. Explosion limits Vapour pressure in hPa (at degrees C): n. a. Density in g/cm**3 (at degrees C): n. a. Solubility Solubility in water in g/l (at degrees C): n. a. pH-value (at g/l H2O) (at degrees C): n. a. Viscosity Dynamic viscosity in mPa*s (at degrees C): n. a.</p>	
10.	<p><u>Stability and reactivity</u></p> <p>Conditions to avoid / hazardous reactions: None, according to regulate use.</p> <p>Further information: The intact product has no danger of physical health.</p>
11.	<p><u>Toxicology</u></p> <p>Acute toxicity: None</p> <p>LD/LC50-values for classification: n. a.</p> <p>Further information: The potassium carbonate emission after ignition of the Aerosol extinguishing generators increase the pH value by means of hydrolytical processes within a range of 7.5 to 8.6. This slight alkalinity does normally not show any skin irritations. When using and handling in accordance with the regulations the undamaged fire extinguisher does not present any health dangers.</p>
12.	<p><u>Ecological information</u></p> <p>Ecotoxic effects: None</p> <p>Mobility and bio-accumulation potential: --</p> <p>Elimination data (persistence and degradability): n. a.</p> <p>Method for analysing: --</p> <p>Behaviour in environment compartments : --</p> <p>Other information: Ozone Depletion Potential (ODP) = 0 Atmospheric Lifetime (ALT) = negligible Global Warning Potential (GWP) = negligible</p> <p>From the ecological point of view the undamaged extinguishing generator does not present any danger.</p>

13. Disposal information

Product
Recommendation:
Before disposal consult producer
Superposed generators send back to producer
Burnt down generators consult producer

Unpurified packaging: **n. a.**

14. Transport information

Land transport: **ADR/RID und GGVS**

Class: **1.4 S**

UN-No.: **0432**

Name and description of product: **Pyrotechnic articles, for technical purposes**

Remarks: **Method of packaging P135**

Inland shipping : **ADN/ADNR**

Marine shipping: **IMDG/GGVSee**

Class: **1.4 S, Seite/page C1183 / C554**

UN-No.: **0432**

EMS-No.: **F-B, S-X**

Correct technical name: **Pyrotechnic articles , for technical purpose**

Air transport ICAO-TI and IATA-DGR

Class: **1.4 S**

UN/ID-No.: **0432**

Remarks: **None**

Transport / further information:
Subject to the ICAO Technical Instructions the extinguishing generator can be transported by cargo and passenger aircraft.

15. Regulations

Labelling as per EC Directives

Component(s) determining danger for labelling: --

German regulations

Marking as per Hazardous Substances Ordinance (CBGBL IS . 1575) from 11.07.2006:
Hazard labelling not required

Further regulations:
Is submitted in Germany to the Explosives' Law

Is submitted to the Employer's Liability Insurance Association corresponding approval conditions have to be considered

Water hazard class (WGK) as classified by manufacturer:
1 (free mass of the fire extinguishant composition)

16. Other data

Further information: **R 6 explosive with or without contact with air**

Division responsible for the edition of the Safety Data Sheet: **Product safety**

Contact: **Dr. Berger**

Note on updated version:

The data in the safety data sheet reflects the current state of knowledge of our products. It serves to describe the handling and safety requirements relevant to the product. No binding statements as to the contractually agreed product characteristics may be inferred there from. This safety data sheet is printed automatically and hence unsigned.

Released

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