

# MSDS - Material Safety Data Sheet

## Section 1 Identification of the substance / mixture and of the company / undertaking

|     |   |   |
|-----|---|---|
| 1.1 | Product identifier<br>Trade name:   | Portable and Stationary X-ray Systems   |
| 1.2 | Relevant identified uses of the substance or the mixture and uses advised against<br>Product use: | X-ray inspection  |
| 1.3 | Details of the supplier of the safety data sheet<br>Company:                                      | Comet Technologies Denmark A/S<br>Helgeshøj Alle 38<br>2630 Taastrup<br>Denmark |
|     | Contact:  | T +45 72 40 77 00<br>mail.xray.dk@comet.tech                                    |
|     | Website:  | www.comet-xray.com  |
| 1.4 | Emergency telephone number<br>Emergency number:   | Use your national or local emergency number, see section 4 "First aid measures" |

## Section 2 Hazards identification

|     |  |
|-----|--|
| 2.1 | Classification of the substance or mixture<br>CLP 1272/2008<br>This product is classified as articles under REACH and are not subject to the requirements for information in the supply chain (safety sheets and labels) |
| 2.2 | Label elements<br>Not classified   |
| 2.3 | Other hazards<br>No additional information available   |

## Section 3 Composition / information on ingredients

|     |   |
|-----|---|
| 3.1 | Substance<br>This chemical is contained in a sealed cylinder. Risk of exposure occurs only if the product is mechanically abused. |
| 3.2 | Mixture<br>Not applicable.  |
| 3.3 | Additional information<br>See full text of H-phases in chapter 16.  |

## Section 4 First aid measures

|     |  |  |
|-----|--|--|
| 4.1 | Description of first aid measures<br>General information:  | I In case of emergency and doubts about the injured person's condition or if any symptoms continue please contact a doctor or the emergency room.  |
|     | Inhalation:  | Only relevant in case of Sulphur Hexafluoride leakage. Move the person to fresh air area and keep at rest in a position comfortable for breathing. If the person feels unwell or if in doubt seek medical advice/attention.                  |
|     | Skin contact:  | Only relevant in case of Sulphur Hexafluoride leakage. Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice / attention.   |
|     | Eye contact:   | Only relevant in case of Sulphur Hexafluoride leakage. Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate medical advice/attention. |
|     | Ingestion:   | Ingestion is not considered a potential route of exposure.   |
| 4.2 | Most important symptoms and effects, both acute and delayed<br>None known.                           |  |
| 4.3 | Indication of any immediate medical attention and special treatment needed<br>Treat symptomatically. |  |

## Section 5 Firefighting measures

|     |   |  |
|-----|---|--|
| 5.1 | Extinguishing media<br>Suitable extinguishing media:                  | Use extinguishing media appropriate for surrounding fire.  |
| 5.2 | Special hazards arising from the substance or mixture<br>Fire hazard: | The product is not flammable. May emit hazardous fumes under fire conditions, avoid inhalations. |
| 5.3 | Advice for firefighters<br>Protection during firefighting:            | Standard protective clothing and equipment (e.g. self- contained breathing apparatus)            |

## Section 6 Accidental release measure

- 6.1 Personal precautions, protective equipment and emergency procedures  
None known.  
In case of Sulphur Hexafluoride leakage, avoid inhalations of vapor and contact with eyes and skin.
- 6.2 Environmental precautions  
In case of Sulphur Hexafluoride leakage, try to stop release if safe to do so.
- 6.3 Methods and material for containment and cleaning up  
For containment: In case of Sulphur Hexafluoride leakage, try to stop release if safe to do so.
- Methods for cleaning up: Dispose of this equipment in accordance with local regulation.
- 6.4 Reference to other sections  
See section 13 Disposal considerations with regard to the handling of waste. See section 8 Exposure controls/personal protection for protective measure.

## Section 7 Handling and storage

- 7.1 Precautions for safe handling  
Do not handle until all safety precautions have been read and understood. If in doubt, contact supplier.
- 7.2 Conditions for safe storage, including any incompatibilities  
Avoid mechanical abuse. Storage at high temperatures should be avoided.
- 7.3 Specific end use(s)  
This product should only be used for applications described in Section 1.2

## Section 8 Exposure controls / Personal protection

- 8.1 Control parameters  
Not relevant.
- 8.2 Exposure controls
- Appropriate controls: No specific technical measures.
- Respiratory protection: Not necessary under conditions of normal use. Only relevant if leak of Sulphur Hexafluoride, seek fresh air.
- Hand protection: Not necessary under conditions of normal use. Only relevant if leak of Sulphur Hexafluoride.
- Eye protection: Not necessary under conditions of normal use. Only relevant if leak of Sulphur Hexafluoride.
- Body protection: Not necessary under conditions of normal use. Only relevant if leak of Sulphur Hexafluoride.
- Environmental exposure controls: Refer to local regulations for restriction of emissions to the atmosphere.

**Section 9 Physical and chemical properties**

|     |   |
|-----|---|
| 9.1 | Information on basic physical and chemical properties<br>Appearance: Solid  |
|     | Color: N/A  |
|     | Odor: N/A   |
|     | pH: N/A   |
|     | Boiling point (Sulphur Hexafluoride) -62,55 °C  |
|     | Critical temperature (Sulphur Hexafluoride): 46,55 °C   |
|     | Solubility (Sulphur Hexafluoride): Water 41 mg/l  |
| 9.2 | Other information<br>Additional information (Sulphur Hexafluoride): Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. |

**Section 10 Stability and reactivity**

|      |  |
|------|--|
| 10.1 | Reactivity<br>Stable product under normal conditions.  |
| 10.2 | Chemical stability<br>Stable under normal condition.   |
| 10.3 | Possibility of hazardous reactions<br>None known   |
| 10.4 | Conditions to avoid<br>Heating, mechanical abuse.  |
| 10.5 | Incompatible materials<br>None known   |
| 10.6 | Hazardous decomposition products<br>May emit hazardous fumes under fire conditions, avoid inhalations. |

## Section 11 Toxicological information

|      |   |                |
|------|---|----------------|
| 11.1 | Information on toxicological effects                |                |
|      | Acute toxicity:                                     | Not classified |
|      | Skin corrosion/irritation:                          | Not classified |
|      | Serious eye damage/irritation:                      | Not classified |
|      | Respiratory or skin sensitization:                  | Not classified |
|      | Germ cell mutagenicity:                             | Not classified |
|      | Carcinogenicity:                                    | Not classified |
|      | Reproductive toxicity:                              | Not classified |
|      | Specific target organ toxicity (single exposure):   | Not classified |
|      | Specific target organ toxicity (repeated exposure): | Not classified |
|      | Aspiration hazard:                                  | Not classified |

## Section 12 Ecological information

|      |   |                                     |
|------|---|-------------------------------------|
| 12.1 | Toxicity<br>No additional information available.  |                                     |
| 12.2 | Persistence and degradability<br>Not relevant, product is an article.                             |                                     |
| 12.3 | Bio accumulative potential<br>No potential.   |                                     |
| 12.4 | Mobility in soil<br>Not relevant, product is an article.  |                                     |
| 12.5 | Other adverse effects<br>Effect on ozone layer<br>(only in case of Sulphur Hexafluoride leakage): | No known effects from this product. |
|      | Global warming potential [CO <sub>2</sub> =1] (only in case of Sulphur Hexafluoride leakage):     | 22200                               |

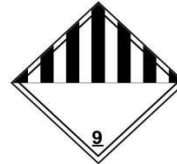
## Section 13 Disposal considerations

|      |   |  |
|------|---|--|
| 13.1 | Waste treatment methods<br>Waste treatment methods: | Dispose of contents/container/article in accordance with national regulations. |
|      | Waste disposal recommendations:                     | Refer to manual or contact supplier if guidance is required.                   |

**Section 14 Transport information**

**Road/Rail transport (ADR/RID)**

ADR/RID marking



9 Miscellaneous

Exemption  
UN number  
Proper shipping name  
Class  
Labelling

Not subject for ADR/RID  
3363  
Dangerous goods in apparatus  
9  
No labelling according to ADR/RID, see section 1.6.1.46, transition period till 31st of December 2022  
Carriage in accordance with 1.1.4.2.1

Other Information

**Sea transport (IMDG)**

IMDG marking



2.2 Non-flammable gas

UN number  
Proper shipping name  
Class

3164  
Articles, pressurized, pneumatic  
2.2

**Air transport (ICAO-TI / IATA-DGR)**

ICAO-TI / IATA-DGR marking



9 Miscellaneous

UN number  
Proper shipping name  
Class  
Passenger and Cargo Aircraft  
Packing instruction - Passenger and Cargo Aircraft Only  
Cargo Aircraft Only  
Packing instruction - Cargo Aircraft Only

3363  
Dangerous goods in apparatus  
9  
Allowed  
962  
  
Allowed  
962

| Product family<br>(Item numbers)  | Gas amount of SF6<br>in grams (g) |
|---|-----------------------------------|
| Portable X-ray tube 160 kV<br>20064011 / 20064013 / 20072511 / 20072513 / 9421-594-70500 / 9421-594-60500 /<br>9421-594-00500 / 9421-613-01000 / 20041055 / 20041056 / 20107358   | 125                               |
| Portable X-ray tube 200 kV<br>20064021 / 20064023 / 20064027 / 20072521 / 20072523 / 20072527 /<br>9421-587-00500 / 9421-579-80500 / 9421-579-00500 / 9421-624-60500 / 20049532<br>/ 20045344 / 20032247 / 20041058 / 20041059 / 20056075   | 145                               |
| Portable X-ray tube 225 kV<br>20064031 / 20064033 / 20064035 / 20064039 / 20072531 / 20072533 / 20072535 /<br>20072539 / 9421-592-00500 / 9421-577-00500 / 9421-624-50500 / 20049531 /<br>5312-629-80500 / 20041061   | 170                               |
| Portable X-ray tube 300 kV<br>20064001 / 20064003 / 20064005 / 20064007 / 20064037 / 20072501 / 20072503 /<br>20072505 / 20072507 / 20072537 / 9421-591-90500 / 9421-624-00500 /<br>9421-614-00500 / 20049533 / 20049523 / 20032448 / 5312-629-00500 /<br>5312-629-90500 / 20041062 / 20041066 / 20041063 / 20056019 / 20052720 | 255                               |
| Portable X-ray tube XPO or 225-1200<br>20064049 / 20064051 / 20072549 / 20072551 / 9421-619-01500 / 20072130  | 190                               |
| Stationary X-ray tube ION 300F, Y.XPO 300FB or 300D/1200<br>20117444 / 20114255 / 20108942 / 20113042 / 20063947  | 300                               |

#### Section 15 Regulatory information

Not available

#### Section 16 Other information

Full text of H-phrases as mentioned in section 3:

H280 Contains gas under pressure; may explode if heated.

Additional information:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.