

# Safety Data Sheet

## 1. Identification of the substance / preparation and the Company

### 1.1 Identification of the substance or preparation

Code: 39/40  
Product name: Avvisatore acustico a gas

### 1.2 Use of the substance / preparation

### 1.3 Company identification

Name: Marco S.p.A.  
Full address: Via Mameli, 10  
District and Country: 25014 Castenedolo (BS)  
Italia  
Tel. 0039 030 2134.1  
Fax 0039 030 2134.300

e-mail address of the competent person responsible for the Safety Data Sheet: info@marco.it

### 1.4 Emergency telephone

For urgent inquiries refer to: CENTRO ANTIVELENI Ospedale Niguarda tel: 0039 02 66101029

## 2. Hazards Identification

This product is not dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments.

## 3. Composition / Information on ingredients

The product is not classified as hazardous pursuant to directives 67/548/EEC and 1999/45/EC and subsequent amendments and upgrades and does not contain substances classified as being hazardous to human health or the environment pursuant to 67/548/EEC and subsequent amendments.

## 4. First aid measures

No episodes of damage to health ascribable to the product have been reported. Nevertheless, observance of good industrial hygiene is recommended.

## 5. Fire-fighting measures

### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

### SUITABLE EXTINGUISHING MEDIA

The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.

### EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

None in particular.

### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

## 6. Accidental release measures

### PERSONAL PRECAUTIONS

Use breathing equipment if fumes or powders are released into the air.

### ENVIRONMENTAL PRECAUTIONS

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

### METHODS FOR CLEANING UP

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

## 7. Handling and storage

Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressure and overheating in the event of fire in the vicinity. Refer to the other sections of this data sheet for information relating to health and environmental risks.

## 8. Exposure control / personal protection.

### 8.1 Exposure limit values

Descrizione	Tipo	Stato	TWA/8h		STEL/15min	
			mg/m3	ppm	mg/m3	ppm
Miscela 1,1,1,2-Tetrafluoroetano 95% - Dimetiletere 5%; FD95/0						
	EU	I		1000		

### 8.2 Exposure controls

Observance of safety measures used in handling chemical substances.

### RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear an FFP3 (ref. standard EN 141) type half mask.

**EYE PROTECTION**

None required.

**HAND PROTECTION**

None required.

**SKIN PROTECTION**

None required.

## **9. Physical and chemical properties**

Solubility	Not available
Viscosity	Not available
Vapour density	Not available
Evaporation Rate	Not available
Reactive Properties	Not available
Partition coefficient: n-octanol/water	Not available
pH	Not available
Boiling point	Not available
Flash point	>60°C
Explosive properties	Not available
Vapour pressure	Not available
Specific gravity	1,150Kg/l
VOC (Directive 1999/13/EC) :	0
VOC (volatile carbon) :	0

## **10. Stability and reactivity**

The product is stable in normal conditions of use and storage. In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

## **11. Toxicological information**

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

## **12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

## **13. Disposal consideration**

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## 14. Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

**Road and rail transport:**

ADR/RID Class:	2
UN:	1950
Label:	2.2
Nr. Kemler:	--
Limited Quantity	LQ02
Tunnel restriction code	(E)
Proper Shipping Name:	AEROSOLS

**Carriage by sea (shipping):**

IMO Class:	2.2
UN:	1950
Label:	2.2
EMS:	F-D, S-U
Marine Pollutant	NO
Proper Shipping Name:	AEROSOLS

**Transport by air:**

IATA:	2.2
UN:	1950
Label:	2.2
Cargo:	
Packaging instructions:	203
Maximum quantity:	150 Kg
Pass.:	
Packaging instructions:	203
Maximum quantity:	75 Kg
Special Instructions:	A145, A153
Proper Shipping Name:	AEROSOLS

## 15. Regulatory information

Warning symbols: None

Hazard sentences (R): None

Caution recommendations (S): None

Label EC: non assegnato

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

This product is not subject to hazard labeling under the 67/548/EEC and 1999/45/EC directives and following amendments and adjustments.

## **16. Other information**

### **GENERAL BIBLIOGRAPHY**

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1272/2008 (CLP) of the European Parliament;
4. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
5. The Merck Index. - 10th Edition;
6. Handling Chemical Safety;
7. Niosh - Registry of Toxic Effects of Chemical Substances;
8. INRS - Fiche Toxicologique (toxicological sheet);
9. Patty - Industrial Hygiene and Toxicology;
10. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

### **Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.