

# Safety Data Sheet

## 1. Identification

### 1.1. Product identifier

Code: **W507/USA**  
 Product name: **Gas leaks detector**  
 Chemical name and synonym: **Detector**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: **Not regulated**

Identified Uses	Industrial	Professional	Consumer
Industrial Use	✓	-	-
Professional Use	-	✓	-

### 1.3. Details of the supplier of the safety data sheet

Name: **AMBRO-SOL S.R.L.**  
 Full address: **Via per Pavone del Mella n.21**  
 District and Country: **25020 Cigole (BS) Italia**

Tel. **+39 030 9959674**

Fax **+39 030 959265**

e-mail address of the competent person responsible for the Safety Data Sheet

**quality@ambro-sol.com**

### 1.4. Emergency telephone number

For urgent inquiries refer to

**American Association of Poison Control Centers: +1 (800) 222-1222**

## 2. Hazards identification

**Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.**

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement

Hazard pictograms:

Pressurised gas

Contains gas under pressure; may burst if heated.

Acute toxicity, category 4

Harmful if inhaled.

Serious eye damage, category 1

Causes serious eye damage.



Signal words:

Danger

Hazard statements:

**H280** Contains gas under pressure; may burst if heated.  
**H332** Harmful if inhaled.  
**H318** Causes serious eye damage.

Precautionary statements:

Prevention:

**P261** Avoid breathing dust / fume / gas / mist / vapours / spray.  
**P280** Wear eye protection / face protection.  
**P271** Use only outdoors or in a well-ventilated area.

Response:

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P310** Immediately call a POISON CENTER / doctor / . . .  
**P304+P340** IF INHALED: remove person to fresh air and keep comfortable for breathing.

Storage:

**P410+P403** Protect from sunlight. Store in a well-ventilated place.

Disposal:

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The mixture contains 7.56% of components of unknown acute inhalation toxicity.

## 2.2. Other hazards

Information not available

## 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

Identification	Conc. %	Classification:
<b>N-lauroilsarcosinato di sodio</b>		
CAS 137-16-6	2.53	Acute toxicity, category 2 H330, Serious eye damage, category 1 H318, Skin irritation, category 2 H315



## 6. Accidental release measures

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

### 7.3. Specific end use(s)

Information not available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

USA	NIOSH-REL	NIOSH publication No. 2005-149, 3th printing, 2007.
USA	OSHA-PEL	Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.
USA	CAL/OSHA-PEL	California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2018

## ETHANEDIOL

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-		25		50	
OEL	EU	52	20	104	40	SKIN
TLV-ACGIH	-			10		INHAL
CAL/OSHA	USA	100	40			
NIOSH	USA				50 (C)	

**PROPANE**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-		1000			
OSHA	USA	1800	1000			
CAL/OSHA	USA	1800	1000			
NIOSH	USA	1800	1000			

**BUTANE**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-		1000			
CAL/OSHA	USA	1.9	800			
NIOSH	USA	1900	800			

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

TLV of solvent mixture: 10 mg/m3

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

**HAND PROTECTION**

None required.

**SKIN PROTECTION**

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a NIOSH certified

combined filter should be worn (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## 9. Physical and chemical properties

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

Appearance	aerosol
Colour	colourless
Odour	no odour
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	> 100 °C (212 °F)
Boiling range	Not available
Flash point	Not applicable
Evaporation Rate	Not available
Flammability of solids and gases	not flammable
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	a 20°C 0.96 ÷ 1.00 g/ml g/ml
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	> 200°C
Viscosity	Not available
Explosive properties	not applicable
Oxidising properties	not applicable

### 9.2. Other information

Total solids (250°C / 482°F)	10,50 %
VOC :	8,10 % - 0,00 g/litre
Usage temperature	> 0°C / 100°C ca.
Others	Biodegradabilità: 92% (composto di H2O)

## 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### ETHANEDIOL

In the air absorbs moisture. Decomposes at temperatures above 200°C/392°F.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

ETHANEDIOL

Risk of explosion on contact with: perchloric acid. May react dangerously with: chlorosulphuric acid, sodium hydroxide, sulphuric acid, phosphorus pentasulphide, chromium (III) oxide, chromyl chloride, potassium perchlorate, potassium dichromate, sodium peroxide, aluminium. Forms explosive mixtures with: air.

### 10.4. Conditions to avoid

Avoid overheating.

ETHANEDIOL

Avoid exposure to: sources of heat, naked flames.

### 10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

### 10.6. Hazardous decomposition products

ETHANEDIOL

May develop: hydroxyacetaldehyde, glyoxal, acetaldehyde, methane, carbon monoxide, hydrogen.

## 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

ETHANEDIOL

WORKERS: inhalation; contact with the skin.

POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

## ETHANEDIOL

Ingestion initially stimulates the central nervous system; later replaced by a phase of depression. There may be kidney damage, with anuria and uremia. Over-exposure symptoms are: vomiting, drowsiness, difficulty in breathing, convulsions. The lethal dose for humans is approx. 1.4 ml/kg.

Interactive effects

Information not available

ACUTE TOXICITY

## ETHANEDIOL

LD50 (Oral) > 2000 mg/kg Rat

LD50 (Dermal) 9530 mg/kg Rabbit

## N-lauroilsarcosinato di sodio

LD50 (Oral) 5000 mg/kg bw rat

LC50 (Inhalation) > 50 mg/m<sup>3</sup> air 4 h rat

## Glycerol

LD50 (Oral) 27 mg/kg bw rat

LD50 (Dermal) 45 mg/kg bw guinea pig

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class



Carcinogenicity Assessment:  
107-21-1ETHANEDIOL  
ACGIH:: A4

#### ETHANEDIOL

Available studies have shown no carcinogenic potential. In a carcinogenicity study lasting two years, carried out by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the feed, "no evidence of carcinogenic activity" in male and female B6C3F1 mice was observed (NTP, 1993).

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## 12. Ecological information

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

### 12.1. Toxicity

N-lauroilsarcosinato di sodio

LC50 - for Fish	> 32.1 mg/l/96h
EC50 - for Crustacea	> 8.91 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 39 mg/l/72h
Chronic NOEC for Fish	50 mg/l 4 days
Chronic NOEC for Crustacea	5 mg/l 48 h
Chronic NOEC for Algae / Aquatic Plants	9.2 mg/l 72 h

Glycerol

LC50 - for Fish	54 g/l/96h
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### 12.2. Persistence and degradability

ETHANEDIOL

Solubility in water	1000 - 10000 mg/l
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Rapidly degradable

N-lauroilsarcosinato di sodio

Rapidly degradable

Glycerol

Rapidly degradable

### 12.3. Bioaccumulative potential

ETHANEDIOL

Partition coefficient: n-octanol/water

-1.36

### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### 12.6. Other adverse effects

Information not available

## 13. Disposal considerations

### 13.1. Waste treatment methods

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.

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA).

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not puncture or incinerate containers, even empty. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## 14. Transport information

### 14.1. UN number

ADR / RID, IMDG, 1950

IATA:

### 14.2. UN proper shipping name

ADR / RID: AEROSOLS

IMDG: AEROSOLS

IATA: AEROSOLS, NON-FLAMMABLE

### 14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.2



IMDG: Class: 2 Label: 2.2



IATA: Class: 2 Label: 2.2



**14.4. Packing group**

ADR / RID, IMDG, IATA: -

**14.5. Environmental hazards**

ADR / RID: NO

IMDG: NO

IATA: NO

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: --	Limited Quantities: 1 L	Tunnel restriction code: (E)
	Special Provision: -		
IMDG:	EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Pass.:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special Instructions:	A98, A145, A167, A802	

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

**15. Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

U.S. Federal Regulations

TSCA:

Clean Air Act Section 112(b):

107-21-1

ETHANEDIOL

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act –  
Priority Pollutants:

No component(s) listed.

Clean Water Act –  
Toxic Pollutants:

No component(s) listed.

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

No component(s) listed.

EPA List of Lists:

313 Category Code:

107-21-1

ETHANEDIOL

7632-00-0

SODIUM NITRITE

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

107-21-1

ETHANEDIOL

7632-00-0

SODIUM NITRITE

EPCRA 313 TRI:

107-21-1

ETHANEDIOL

7632-00-0

SODIUM NITRITE

RCRA Code:

No component(s) listed.

CAA 112 (r) RMP TQ:

74-98-6	PROPANE (Alkanes, Alkanes (aliphatic hydrocarbon alkanes, C1- C4))
106-97-8	BUTANE (Alkanes)

State Regulations

Massachusetts:

56-81-5	Glycerol
107-21-1	ETHANEDIOL
74-98-6	PROPANE (Alkanes, Alkanes (aliphatic hydrocarbon alkanes, C1- C4))
7727-37-9	Nitrogen
106-97-8	BUTANE (Alkanes)

Minnesota:

56-81-5	Glycerol
107-21-1	ETHANEDIOL
74-98-6	PROPANE (Alkanes, Alkanes (aliphatic hydrocarbon alkanes, C1- C4))
7727-37-9	Nitrogen
106-97-8	BUTANE (Alkanes)

New Jersey:

56-81-5	Glycerol
107-21-1	ETHANEDIOL
74-98-6	PROPANE (Alkanes, Alkanes (aliphatic hydrocarbon alkanes, C1- C4))
7727-37-9	Nitrogen
106-97-8	BUTANE (Alkanes)

New York:

107-21-1	ETHANEDIOL
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Pennsylvania:

56-81-5	Glycerol
107-21-1	ETHANEDIOL
74-98-6	PROPANE (Alkanes, Alkanes (aliphatic hydrocarbon alkanes, C1- C4))
7727-37-9	Nitrogen
106-97-8	BUTANE (Alkanes)

California:

107-21-1	ETHANEDIOL
106-97-8	BUTANE (Alkanes)

Proposition 65:

WARNING! This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

107-21-1

ETHANEDIOL D

International Regulations

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Canadian WHMIS

Information not available

**16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>H280</b>	Contains gas under pressure; may burst if heated.
<b>H330</b>	Fatal if inhaled.
<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train

- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

## GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112© of the Clean Air Act
- Massachusetts 105 CMR Department of public health 670.000: "Right to Know"
- Minnesota Chapter 5206 Department Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

## 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.

Provide appointed staff with adequate training on how to use chemical products.

## Changes to previous review:

The following sections were modified:

01 / 11.