

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 29 Oct 2024

Print date: 29 Oct 2024

Version: 3

Page 1/9



## Leak Detect Pro 400ml

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

#### \* 1.1. Product identifier

Trade name/designation:

Leak Detect Pro 400ml

Article No.:

T163002

UFI:

NA71-T6CM-7SNE-7D7C

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

Use of the substance/mixture:

Surface active agent

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

Supplier:

**KANDO Service GmbH**

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
Aerosols (Aerosol 3)	H229: Pressurised container: May burst if heated.	

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS07**

Exclamation mark

Signal word: Warning

##### Hazard statements for physical hazards

H229 Pressurised container: May burst if heated.

##### Hazard statements for health hazards

H319 Causes serious eye irritation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 29 Oct 2024

Print date: 29 Oct 2024

Version: 3

Page 2/9



## Leak Detect Pro 400ml

Supplemental hazard information: none

### Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.

### Precautionary statements 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.
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### Precautionary statements Storage

P403	Store in a well-ventilated place.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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### Additional information:

Contains 0 mass percent flammable components.

### 2.3. Other hazards

#### Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Description:

Active ingredient mixture with propellant gas

#### Additional information:

Aerosols and containers fitted with a solid nebuliser containing substances or mixtures classified as hazardous by aspiration must not be labelled for this hazard.

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 27306-90-7	<b>Alkyl ether carboxylic acid</b> Eye Dam. 1 (H318) Danger	≥ 2.5 - < 3 Vol-%
CAS No.: 1336-21-6 EC No.: 215-647-6 Index No.: 007-001-01-2 REACH No.: 01-2119488876-14	<b>Ammonia, aqueous solution</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), STOT SE 3 (H335), Skin Corr. 1B (H314) Danger <b>Specific concentration limit (SCL)</b> STOT SE 3; H335: C ≥ 5% <b>Acute Toxicity Estimate</b> ATE (oral) 350 mg/kg ATE (dermal) ≥ 5,000 mg/kg ATE (inhalation, vapour) ≥ 50 mg/L	≥ 0.25 - < 1 Vol-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Following inhalation:

Fresh air supply, consult a doctor in case of complaints.

#### In case of skin contact:

In general, the product is not irritating to skin.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

**Revision date:** 29 Oct 2024

**Print date:** 29 Oct 2024

**Version:** 3

Page 3/9



## Leak Detect Pro 400ml

### After eye contact:

Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

### Following ingestion:

Do not induce vomiting, seek medical help immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

### 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 media:

Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water spray jet, alcohol resistant foam, Water mist  
Adapt fire extinguishing measures to the surroundings.

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

No further relevant information available.

### 5.3. Advice for firefighters

Special protective equipment: Put on breathing apparatus.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Not necessary.

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

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

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### 6.4. Reference to other sections

Further information on proper storage: see section 7.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Ensure good ventilation/extraction at the workplace.

##### Fire prevent measures:

No special measures are necessary.

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

#### Requirements for storage rooms and vessels:

The official regulations for the storage of pressurised gas packages must be observed.

#### Hints on storage assembly:

The official regulations for the storage of pressurised gas packages must be observed.

**Storage class (TRGS 510, Germany):** 2B – Aerosol dispensers and lighters

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

**Revision date:** 29 Oct 2024

**Print date:** 29 Oct 2024

**Version:** 3



Page 4/9

## Leak Detect Pro 400ml

### 7.3. Specific end use(s)

**Recommendation:**

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No further details. See section 7.

#### 8.2.2. Personal protection equipment

**Eye/face protection:**

Safety goggles (EN-166)

**Skin protection:**

Hand protection:

The glove material must be impermeable and resistant to the product/the substance/the preparation. Due to the lack of tests, no recommendation can be made on the glove material for the product/preparation/mixture of chemicals. Selection of glove material considering breakthrough times, permeation rates and degradation.

Wear gloves for protection against chemicals according to EN 374.

Gloves / solvent resistant

Glove material:

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. NBR (Nitrile rubber)

Recommended material thickness:  $\geq 0,5$  mm

Permeation time (maximum wear duration):

For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available. In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.

Body protection:

Use protective suit. (EN-13034/6)

Antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688 EN13034-6).

**Respiratory protection:**

In case of inadequate ventilation wear respiratory protection. Filter ABEK-P2

**Other protection measures:**

General protective and hygienic measures: Wash hands before breaks and after work. General ventilation.

#### 8.2.3. Environmental exposure controls

Use a suitable container to prevent environmental pollution.

## SECTION 9: Physical and chemical properties

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

**Appearance**

**Form:** Aerosol

**Colour:** various

**Odour:** characteristic

**flammability:** No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 29 Oct 2024

Print date: 29 Oct 2024

Version: 3



Page 5/9

## Leak Detect Pro 400ml

### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7 - 8	20 °C	
Initial boiling point and boiling range	100 °C		
Flash point	104 °C		
Evaporation rate	No data available		
Auto-ignition temperature	371 °C		
Upper/lower flammability or explosive limits	2.6 - 12.6 Vol-%		
Vapour pressure	23 hPa	20 °C	
Density	1.017 g/cm³	20 °C	
Bulk density	not applicable		
Water solubility			② completely miscible.
Dynamic viscosity	0 mPa* s	20 °C	

### 9.2. Other information

The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.

#### 9.2.1. Information with regard to physical hazard classes

##### Explosives:

Not applicable

##### Flammable gases:

Not applicable

##### Aerosols:

Pressurised container: May burst if heated.

##### Oxidizing gases:

Not applicable

##### Gases under pressure:

Not applicable

##### Flammable liquids:

Not applicable

##### Flammable solids:

Not applicable

##### Self-reactive substances and mixtures:

Not applicable

##### Pyrophoric liquids:

Not applicable

##### Pyrophoric solids:

Not applicable

##### Self-heating substances and mixtures:

Not applicable

##### Substances or mixtures which, in contact with water, emit flammable gases:

Not applicable

##### Oxidizing liquids:

Not applicable

##### Oxidizing solids:

Not applicable

##### Organic peroxides:

Not applicable

##### Corrosive to metals:

Not applicable

##### Desensitised explosives:

Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 29 Oct 2024

Print date: 29 Oct 2024

Version: 3

Page 6/9



## Leak Detect Pro 400ml

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No further relevant information available.

#### 10.2. Chemical stability

Thermal decomposition / Conditions to avoid No decomposition when used as directed.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

#### 10.4. Conditions to avoid

No further relevant information available.

#### 10.5. Incompatible materials

No further relevant information available.

#### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Ammonia, aqueous solution</b>	CAS No.: 1336-21-6	EC No.: 215-647-6
<b>LD<sub>50</sub> oral:</b> 350 mg/kg (Rat)		
<b>LD<sub>50</sub> dermal:</b> ≥5,000 mg/kg (Rabbit)		
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> ≥50 mg/L 4 h (Rat)		

##### Acute oral toxicity:

Based on available data, the classification criteria are not met.

##### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

##### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

##### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

##### Serious eye damage/irritation:

Causes serious eye irritation.

##### Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

##### 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.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties:

None of the ingredients are included.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 29 Oct 2024

Print date: 29 Oct 2024

Version: 3

Page 7/9



## Leak Detect Pro 400ml

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Ammonia, aqueous solution** CAS No.: 1336-21-6 EC No.: 215-647-6

**LC<sub>50</sub>**: 0.89 mg/L (fish)

**EC<sub>50</sub>**: 110 mg/L (crustaceans, Daphnia)

#### Aquatic toxicity:

No further relevant information available.

#### 12.2. Persistence and degradability

##### Additional information:

No further relevant information available.

#### 12.3. Bioaccumulative potential

##### Accumulation / Evaluation:

No further relevant information available.

#### 12.4. Mobility in soil

No further relevant information available.

#### 12.5. Results of PBT and vPvB assessment

**Alkyl ether carboxylic acid** CAS No.: 27306-90-7

**Results of PBT and vPvB assessment:** —

**Ammonia, aqueous solution** CAS No.: 1336-21-6 EC No.: 215-647-6

**Results of PBT and vPvB assessment:** —

The product does not meet the PBT/vPvB criteria.

#### 12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

#### 12.7. Other adverse effects

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. into the sewerage system. Flushing away larger quantities into sewers or water bodies can lead to an increase in pH value. A high pH-value damages water organisms. In the dilution of the application concentration, the value is reduced considerably, so that after use of the product the waste water entering the sewage system is only slightly hazardous to water. are only slightly hazardous to water.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Must not be disposed of together with household waste.

#### Waste treatment options

##### Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

### SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, NON-FLAMMABLE

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 29 Oct 2024





Print date: 29 Oct 2024

Version: 3



Page 8/9

## Leak Detect Pro 400ml

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.3. Transport hazard class(es)</b>			
 2.2	 2.2	 2.2	 2.2
<b>14.4. Packing group</b>			
		-	
<b>14.5. Environmental hazards</b>			
No	No	No	No
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 190   327   344   625 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E0 <b>Classification code:</b> 5A <b>Tunnel restriction code:</b> (E) <b>Remark:</b> Attention: Gases	<b>Special Provisions:</b> 190   327   344   625 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E0 <b>Classification code:</b> 5A <b>Remark:</b> Attention: Gases	<b>Special Provisions:</b> 63   190   277   327   344   381   959 <b>Limited quantity (LQ):</b> Siehe SV277 <b>Excepted Quantities (EQ):</b> E0 <b>EmS-No.:</b> F-D, S-U <b>Remark:</b> Attention: Gases	<b>Special Provisions:</b> A98   A145   A167 <b>Limited quantity (LQ):</b> Y203 <b>Excepted Quantities (EQ):</b> E0 <b>Remark:</b> Attention: Gases

### 14.7. Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Authorisations:

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients are included.

##### Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.

Regulation (EU) 2019/1148

Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.

Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.

Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 14.89 weight-%

#### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 29 Oct 2024

Print date: 29 Oct 2024

Version: 3



Page 9/9

## Leak Detect Pro 400ml

### SECTION 16: Other information

#### 16.1. Indication of changes

1.1.	Product identifier
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#### 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EN	European Standard
ES	Exposure scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds

#### 16.3. Key literature references and sources for data

No data available

#### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
Aerosols (Aerosol 3)	H229: Pressurised container: May burst if heated.	

#### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

#### 16.6. Training advice

No data available

#### 16.7. Additional information

No data available

\* Data changed compared with the previous version.