

(GB)

Page 1 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 02.08.2013 / 0007

Replaces revision of / Version: 21.11.2012 / 0006

Valid from: 02.08.2013 PDF print date: 05.08.2013 Lecksuchspray 400ML Art.: 3350

# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

## Lecksuchspray 400ML

Art.: 3350

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

Leak detector

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC 3 - Air care products

Process category [PROC]:

PROC 1 - Use in closed process, no likelihood of exposure.

PROC 2 - Use in closed, continuous process with occasional controlled exposure

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC11 - Non industrial spraying

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles

ERC 7 - Industrial use of substances in closed systems

ERC 8a - Wide dispersive indoor use of processing aids in open systems

ERC 8d - Wide dispersive outdoor use of processing aids in open systems

#### Uses advised against:

No information available at present.

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

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr Telephone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

#### 1.4 Emergency telephone

#### Emergency information services / official advisory body:

#### Telephone number of the company in case of emergencies:

Tel.: (+49) 0731-1420-0

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## 2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

Hazard class Hazard category Hazard statement



Page 2 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 02.08.2013 / 0007

Replaces revision of / Version: 21.11.2012 / 0006

Valid from: 02.08.2013 PDF print date: 05.08.2013 Lecksuchspray 400ML Art.: 3350

Aerosol

H229-Pressurised container: May burst if heated.

## 2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

The mixture is not classified as dangerous in the terms of the directive 1999/45/EC.

#### 2.2 Label elements

## 2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Warning

**Hazard statement** 

H229-Pressurised container: May burst if heated.

P102-Keep out of reach of children.

#### 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

Storage

P410+P412-Protect from sunlight. Do no expose to temperatures exceeding 50 °C.

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

## **SECTION 3: Composition/information on ingredients**

Aerosol

#### 3.1 Substance

# n.a. **3.2 Mixture**

-	
Registration number (REACH)	
Index	-
EINECS, ELINCS, NLP	-
CAS	-
content %	
Classification according to Directive 67/548/EEC	
Classification according to Regulation (EC) 1272/2008 (CLP)	

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### Inhalation

Not required.

#### Skin contact

Wash in water.

#### **Eve contact**

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

## Ingestion

Call doctor immediately - have Data Sheet available.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:



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Page 3 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 02.08.2013 / 0007

Replaces revision of / Version: 21.11.2012 / 0006

Valid from: 02.08.2013 PDF print date: 05.08.2013 Lecksuchspray 400ML Art.: 3350

Irritation of the eyes

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

## 4.3 Indication of any immediate medical attention and special treatment needed

Indications for the physician: Symptomatic treatment

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## Suitable extinguishing media

Adapt to the nature and extent of fire. Product is not combustible.

## Unsuitable extinguishing media

None

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Toxic gases

Oxides of carbon

Oxides of nitrogen

Danger of explosion by prolonged heating.

#### 5.3 Advice for firefighters

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Dispose of contaminated extinction water according to official regulations.

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.

Avoid contact with eyes.

#### 6.2 Environmental precautions

None

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

Flush residue using copious water.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

#### SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special regulations for aerosols!

Keep protected from direct sunlight and temperatures over 50°C.

#### 7.3 Specific end use(s)



· GB

Page 4 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 02.08.2013 / 0007

Replaces revision of / Version: 21.11.2012 / 0006

Valid from: 02.08.2013 PDF print date: 05.08.2013 Lecksuchspray 400ML Art.: 3350

No information available at present.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Chemical Name	Nitrous oxide			Content %:
WEL-TWA: 100 ppm (183 mg/m3)		WEL-STEL:		
BMGV:	-		Other information:	-

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

## 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles (EN 166) with side protection, with danger of projections.

Skin protection - Hand protection:

Normally not necessary.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:

Normally not necessary.

Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

## **SECTION 9: Physical and chemical properties**

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

Physical state: Aerosol, Substance: Liquid Colour: Colourless



Page 5 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 02.08.2013 / 0007

Replaces revision of / Version: 21.11.2012 / 0006

Valid from: 02.08.2013 PDF print date: 05.08.2013 Lecksuchspray 400ML Art.: 3350

Odour: Slightly Odour threshold: Not determined

pH-value: 6-7,5 Melting point/freezing point: 0°C >100 °C Initial boiling point and boiling range:

Flash point: n.a. Not determined Evaporation rate: Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined

Vapour pressure: 6000-7500 hPa (20°C) Vapour density (air = 1): Not determined

Density: 0,99-1,01 g/cm3 (20°C)

Bulk density: Not determined Solubility(ies): Not determined Water solubility: Mixable

Partition coefficient (n-octanol/water): Not determined Not determined Auto-ignition temperature: Decomposition temperature: Not determined Viscosity: Not determined Not determined

Explosive properties:

Oxidising properties: No

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined Conductivity: Not determined Surface tension: Not determined Solvents content: Not determined

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

See also Subsection 10.2 to 10.6.

The product has not been tested.

#### 10.2 Chemical stability

See also Subsection 10.1 to 10.6.

Stable with proper storage and handling.

## 10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.

#### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

#### 10.5 Incompatible materials

See also section 7.

None

#### 10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.

See also section 5.2

## **SECTION 11: Toxicological information**

Possibly more information on health effects, see Section 2.1 (classification).

	Lecksuchspray 400ML						
	Art.: 3350						
	Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
		t					
	Acute toxicity, by oral route:						n.d.a.
	Acute toxicity, by dermal route:						n.d.a.



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Page 6 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 02.08.2013 / 0007

Replaces revision of / Version: 21.11.2012 / 0006

Valid from: 02.08.2013 PDF print date: 05.08.2013 Lecksuchspray 400ML Art.: 3350

Acute toxicity, by inhalation:	n.d.a.
Skin corrosion/irritation:	n.d.a.
Serious eye damage/irritation:	n.d.a.
Respiratory or skin sensitisation:	n.d.a.
Germ cell mutagenicity:	n.d.a.
Carcinogenicity:	n.d.a.
Reproductive toxicity:	n.d.a.
Specific target organ toxicity -	n.d.a.
single exposure (STOT-SE):	
Specific target organ toxicity -	n.d.a.
repeated exposure (STOT-RE):	
Aspiration hazard:	n.d.a.
Respiratory tract irritation:	n.d.a.
Repeated dose toxicity:	n.d.a.
Symptoms:	n.d.a.
Other information:	Classification according
	to calculation procedure.

Nitrous oxide						
Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
-	t					
Symptoms:						unconsciousness,
						blisters, intoxication

## **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

Lecksuchspray 400ML							
Art.: 3350							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and							n.d.a.
degradability:							
Bioaccumulative							n.d.a.
potential:							
Mobility in soil:							n.d.a.
Results of PBT and							n.d.a.
vPvB assessment:							
Other adverse effects:							n.d.a.
Other information:							According to the recipe,
							contains no AOX.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

## For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

## For contaminated packing material

Pay attention to local and national official regulations

Recommendation:

Do not perforate, cut up or weld uncleaned container.



Page 7 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 02.08.2013 / 0007

Replaces revision of / Version: 21.11.2012 / 0006

Valid from: 02.08.2013 PDF print date: 05.08.2013 Lecksuchspray 400ML Art.: 3350

15 01 04 metallic packaging

15 01 10 packaging containing residues of or contaminated by dangerous substances

## **SECTION 14: Transport information**

#### **General statements**

UN number: 1950

Transport by road/by rail (ADR/RID)

UN proper shipping name: UN 1950 AEROSOLS

Transport hazard class(es): 2.2 Packing group: Classification code: 5A LQ (ADR 2013): 1 L LQ (ADR 2009):

Not applicable Environmental hazards:

Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:

**AEROSOLS** 

Transport hazard class(es): 2.2 Packing group:

EmS: F-D, S-U Marine Pollutant:

Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name:

Aerosols, non-flammable

Transport hazard class(es): 2.2

Packing group:

Environmental hazards: Not applicable

#### Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

#### **SECTION 15: Regulatory information**

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

For classification and labelling see Section 2.

Observe restrictions:

Yes

Observe incident regulations. VOC 1999/13/EC 0% w/w VOC-CH 0 kg/400 ml

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

2

These details refer to the product as it is delivered.

Revised sections:

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):









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Page 8 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 02.08.2013 / 0007

Replaces revision of / Version: 21.11.2012 / 0006

Valid from: 02.08.2013 PDF print date: 05.08.2013 Lecksuchspray 400ML Art.: 3350

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aerosol 3, H229	Classification based on test data.

#### Aerosol — Aerosols

## Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the

International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and

mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EC European Community

EC European Community
ECHA European Chemicals Agency
EEA European Economic Area
EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera EU Europear

EU European Union
EWC European Waste Catalogue

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals



(GR)

Page 9 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 02.08.2013 / 0007

Replaces revision of / Version: 21.11.2012 / 0006

Valid from: 02.08.2013 PDF print date: 05.08.2013 Lecksuchspray 400ML Art.: 3350

GWP Global warming potential

Hen's Egg Test - Chorionallantoic Membrane HFT-CAM

**HGWP Halocarbon Global Warming Potential** IARC International Agency for Research on Cancer International Air Transport Association IATA

Intermediate Bulk Container **IBC** 

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive incl.

IUCLID International Uniform ChemicaL Information Database

lethal concentration LC

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

Lethal Dose of a chemical ΙD LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

Limited Quantities IΟ

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

organic org.

PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic

PC Chemical product category

PΕ Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

mag parts per million PROC Process category PTFE Polytetrafluorethylene

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List REACH-IT List-No. Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

**UN RTDG** United Nations Recommendations on the Transport of Dangerous Goods VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

Volatile organic compounds VOC

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WÉL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wet weight wwt



(B)

Page 10 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 02.08.2013 / 0007

Replaces revision of / Version: 21.11.2012 / 0006

Valid from: 02.08.2013 PDF print date: 05.08.2013 Lecksuchspray 400ML Art.: 3350

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

## These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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