



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

1.1 Product identifier

Trade name: Kontrolit 400 ml Aerosoldose

UFI: WJK0-Q036-200U-Q6D6

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

General use: Leak detection spray

1.3 Details of the supplier of the safety data sheet

Company name: EUROTECH Maier Ernst GmbH

Street/POB-No.: Herrschaftswiesen 5

Postal Code, city: AT-6842 Koblach

WWW: www.eurotech.at

E-mail: office@eurotech.at

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Department responsible for information:

Telephone: +43 (0)5523 53852, Email: office@eurotech.at

1.4 Emergency telephone number

GIZ-Nord, Göttingen**Telephone: +49 551-19240**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Aerosol 3; H229 Pressurised container: May burst if heated.

2.2 Label elements

Labelling (CLP)

Signal word: **Warning**

Hazard statements: H229 Pressurised container: May burst if heated.

Precautionary statements: 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.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling

EUH208 Contains Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine. May produce an allergic reaction.

2.3 Other hazards

May cause allergic reactions in already sensitized persons.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable



3.2 Mixtures

Hazardous ingredients:

Identifiers	Designation Classification	Content
EC No. 263-016-9 CAS 61788-90-7	Amines, coco alkyldimethyl, N-oxides Skin Irrit. 2; H315. Eye Dam. 1; H318. Aquatic Acute 1; H400.	< 1 %
list no. 939-488-3	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine Skin Irrit. 2; H315. Eye Dam. 1; H318. Skin Sens. 1B; H317.	< 1 %
EC No. 233-032-0 CAS 10024-97-2	Dinitrogen oxide Ox. Gas 1; H270. Press. Gas (Liq.); H280.	< 5 %

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	First aider: Pay attention to self-protection!
In case of inhalation:	Remove person to fresh air and keep comfortable for breathing. Seek medical treatment in case of troubles.
Following skin contact:	Wash with generous amount of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.
After eye contact:	Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
May cause allergic reactions in already sensitized persons.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, carbon dioxide, extinguishing powder, foam

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Pressurised container: May burst if heated.
May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.



Additional information: Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers.
Move undamaged containers from immediate hazard area if it can be done safely.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not allow fire water to penetrate into surface or ground water.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe spray. Avoid contact with the substance.
In case of leakage, eliminate all ignition sources. Provide adequate ventilation.
Wear appropriate protective equipment. Keep unprotected people away.
Cordon off downwind area at risk and warn inhabitants. Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.
Take off contaminated clothing and wash it before reuse.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Store containers in upright position. Protect from frost.

Hints on joint storage:

Do not store together with: strong oxidizing agents, strong alkalis, strong acids.
Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.



SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
10024-97-2	Dinitrogen oxide	Ireland: 8 hours	90 mg/m ³ ; 50 ppm

8.2 Exposure controls

Provide adequate ventilation, and local exhaust as needed.

Personal protection equipment

Occupational exposure controls

Respiratory protection: The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Respiratory protection must be worn whenever the WEL levels have been exceeded.

In case of inadequate ventilation wear respiratory protection.

Use combination filter type A- P2 according to EN 14387.

Hand protection: Protective gloves according to EN 374.

Glove material:

Chloroprene rubber

Layer thickness: > = 0.6 mm.

Breakthrough time: >480 min.

Nitrile rubber

Layer thickness: > = 0.4 mm.

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Risk of splashes: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not pierce or burn, even after use.

Do not breathe spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Take off contaminated clothing and wash it before reuse.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	Form: Aerosol colourless
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available



Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	No data available
Decomposition temperature:	No data available
pH:	7.6
Viscosity, kinematic:	No data available
Solubility:	no data available
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	No data available
Vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	Pressurised container: May burst if heated.
Oxidizing characteristics:	No data available
Auto-ignition temperature:	Not self-igniting
Evaporation rate:	No data available
Additional information:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Pressurised container: May burst if heated.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Protect from frost.

10.5 Incompatible materials

Strong oxidizing agents, strong alkalis, strong acids

10.6 Hazardous decomposition products

	No decomposition when used properly.
Thermal decomposition:	No data available



SECTION 11: Toxicological information

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

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2,000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2,000 mg/kg

Acute toxicity (inhalative): 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: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

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

Contains Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine. May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: 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.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (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: No data available

Other information: Information about Amines, coco alkyldimethyl, N-oxides:
LD50 oral: > 2,000 mg/kg bw

Information about Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine:
LD50 Rat, dermal: > 2,000 mg/kg bw (OECD 402)
LD50 Rat, oral: 4,752 mg/kg bw (OECD 401)
LC0 Rat, inhalative: approx. 0.11 mg/L/7 h

Contains Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine. May produce an allergic reaction.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine:
Fish toxicity:
LC50 Leuciscus idus: 150 - 220 mg/L/96 h
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): > 100 mg/L/48 h (OECD 202)
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): 197.27 mg/L/72 h (OECD 201)

12.2 Persistence and degradability

Further details: No data available



12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information:

Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number:

16 05 05 = gases in pressure containers other than those mentioned in 16 05 04/Aerosol

Recommendation:

Do not pierce or burn, even after use.

Special waste. Dispose of waste according to applicable legislation.

Do not dispose of with household waste.

Package

Waste key number:

15 01 04 = metallic packaging

Recommendation:

Empty carefully and completely, if possible. Handle empty containers with care. Incineration may cause explosion.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: UN 1950

14.2 UN proper shipping name

ADR/RID, IMDG:

UN 1950, AEROSOLS

IATA-DGR:

UN 1950, AEROSOLS, NON-FLAMMABLE

14.3 Transport hazard class(es)

ADR/RID:

Class 2, Code: 5A

IMDG:

Class 2, Subrisk -, see SP63

IATA-DGR:

Class 2.2



14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant:

no



14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:	RID: Kemmler-number 20, UN number UN 1950
Hazard label:	2.2
Special Provisions:	190 327 344 625
Limited quantities:	1 L
EQ:	E0
Package - Instructions:	P207 LP200
Package - Special Provisions:	PP87 RR6 L2
Special provisions for packing together:	MP9
Tunnel restriction code:	E

Sea transport (IMDG)

EmS:	F-D, S-U
Special Provisions:	63 190 277 327 344 381 959
Limited quantities:	See SP277
Excepted quantities:	E0
Package - Instructions:	P207, LP200
Package - Provisions:	PP87, L2
IBC - Instructions:	-
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	-
Tank instructions - Provisions:	-
Stowage and handling:	SW1 SW22
Segregation:	SG69
Properties and observations:	-
Segregation group:	none

Air transport (IATA)

Hazard label:	Non-flamm. gas
Excepted Quantity Code:	E0
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only:	Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisions:	A98 A145 A167 A802
Emergency Response Guide-Code (ERG):	2L
Remarks:	Label 2.2

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

National regulations - EC member states

Volatile organic compounds (VOC):

0 % by weight



Labelling of packaging with <= 125mL content

Signal word:	Warning	
Hazard statements:	H229	Pressurised container: May burst if heated.
	EUH208	Contains Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine. May produce an allergic reaction.
Precautionary statements:	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.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Further regulations, limitations and legal requirements:	Use restriction according to REACH annex XVII, no.: 3, 40	

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

- H229 = Pressurised container: May burst if heated.
- H270 = May cause or intensify fire; oxidiser.
- H280 = Contains gas under pressure; may explode if heated.
- H315 = Causes skin irritation.
- H317 = May cause an allergic skin reaction.
- H318 = Causes serious eye damage.
- H400 = Very toxic to aquatic life.
- EUH208 = Contains Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine. May produce an allergic reaction.

Reason of change: **General revision**

Date of first version: **5/1/2002**

Department issuing data sheet: **see section 1: Department responsible for information**

- Abbreviations and acronyms:
- 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
 - Aerosol: Aerosol
 - Aquatic Acute: Hazardous to the aquatic environment - acute
 - AS/NZS: Australian Standards/New Zealand Standards
 - CAS: Chemical Abstracts Service
 - CFR: Code of Federal Regulations
 - CLP: Classification, Labelling and Packaging
 - DMEL: Derived minimal effect level
 - DNEL: Derived no-effect level
 - EC: European Community
 - EC50: Effective Concentration 50%
 - EN: European Standard
 - EQ: Excepted quantities
 - EU: European Union
 - Eye Dam.: Eye damage
 - IATA: International Air Transport Association
 - IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
 - IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 - IMDG Code: International Maritime Dangerous Goods Code
 - LC50: Median lethal concentration
 - LD50: Lethal dose 50%
 - MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 - OECD: Organisation for Economic Co-operation and Development
 - OEL: Occupational Exposure Limit Value
 - OSHA: Occupational Safety and Health Administration
 - Ox. Gas: Oxidising gas
 - PBT: Persistent, bioaccumulative and toxic
 - PNEC: Predicted no-effect concentration
 - Press. Gas: Gases under pressure
 - REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
 - RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
 - Skin Irrit.: Skin irritation
 - Skin Sens.: Skin sensitisation
 - TLV: Threshold Limit Value
 - TRGS: Technical Rules for Hazardous Substances
 - UN: United Nations
 - vPvB: Very persistent and very bioaccumulative
 - WEL: Workplace Exposure Limit



SAFETY DATA SHEET

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

Kontrolit 400 ml Aerosoldose

Material number 844400

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The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.