

Metaflux Leak Seek Spray

70-14

1. Identification of the substance/preparation

Name of product	Metaflux Leak Seek Spray Art-Nr. 70-14
Manufacturer/distributor	Techno-Service GmbH Detmolder Str.515, D-33605 Bielefeld Phone 0521/924440, Fax 0521-207432 Internet www.metaflux-ts.de
Advice	Phone 0521/9244420 Fax 0521/207432
Emergency advice	Phone 0521/924440

2. Composition/information on ingredients**Chemical characterization**

water, anionic surfactant, dinitrogen monoxide

Hazardous ingredients

CAS-No.	Name	[% weight]	Classification
010024-97-2	Dinitrogenoxide	< 2	

Additional advice

Use: Leak proof agent

3. Special hazards information for man and environment**Special hazards information for humans and environment**

Risk of bursting at temperatures above 50°C

May irritate the eyes. No duty to declare.

4. First aid measures**General information**

no

In case of inhalation

Ensure of fresh air.

In case of skin contact

In case of contact with skin wash off with water.

In case of eye contact

Eye rinsing with water carefully while protecting unhurt eye.

In case of ingestion

If swallowed seek medical advice immediately and show the doctor packing or label.

Physician's information / possible symptoms

no

Physician's information / possible dangers

unknown

Treatment (Advice to doctor)

Treat symptoms.

5. Fire-fighting measures

Suitable extinguishing material

not applicable

Extinguishing material that may not be used for safety reasons

not applicable

Special exposure hazards arising from the substance, combustible products or resulting gases

Risk of bursting by fire heat

Special protective equipment for firefighters

Generally not required

Additional information

no

6. Accidental release measures

Personal precautions

no

Environmental precautions

no

Methods for cleaning up/taking up

Flush away residues with water.

Additional Information

no

7. Handling and storage

Advice on safe handling

No special measures necessary if used correctly.

Advice on protection against fire and explosion

Risk of injuries and fire spreading by bursting caused by fire heat

Requirements for storage rooms and vessels

Observe National and Local regulation

Advice on storage compatibility

no

Further information on storage conditions

No risk for can or product by longer temperatures of -16°C

Storage temperature must not exceed 50°C (=122°F).

Storage group 2B

Information on storage stability

Storage time above 24 months.

8. Exposure controls / personal protection

Additional advice on system design

no

Ingredients with occupational exposure limits to be monitored

CAS-No.	Name	Code	[mg/m ³]	[ml/m ³]	Remark
010024-97-2	dinitrogen monoxide	MAK	180	100	

Additional advice

no

Metaflux Leak Seek Spray

70-14

Respiratory protection

Generally not required

Hand protection

If contamination is possible use chemical-resistant gloves made of nitrile (EN 374; permeation time > 480 min))

Eye protection

Generally not required

Skin protection

Generally not required

General protective measures

Do not inhale aerosols

Hygiene measures

Do not eat or drink when working.

9. Physical and chemical properties

Form	Colour	Odour
aerosol	colourless	hardly noticeable
Data relevant for safety	Value	Temperature at Method Remark
pH value in delivery state	6 - 7,5	20 °C
Acid number		not applicable
Changes in physical state solid/fluid		not applicable
Changes in physical state gas		content may be frozen when stored below 0°C
Flash point		not applicable
Flammable solid		not applicable
Flammable gas		not applicable
Combustion temperature		not applicable
Autoignition		not applicable
Lower explosion limit		not applicable
Upper explosion limit		not applicable
Vapour pressure	6000 - 6500 hPa	20 °C
Density	0,99 - 1,01 g/cm ³	20 °C
Bulk density		not applicable

Safety data-sheet (91/155 EEC)

Printed 27.03.2006

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Metaflux Leak Seek Spray

70-14

	Value	Temperature	at	Method	Remark
Rel. vapour density					not applicable
Solubility in water					multimiscible
Solubility/other					not applicable
Partition coefficient (log p_{OW})					not determined
Viscosity 1					not determined
Viscosit 2					not determined
Solvent separation test					not applicable
Solvent concentration					no
Explosive properties					
Risk of bursting at temperatures exceeding 50°C					

10. Stability and reactivity

Conditions to avoid

no

Materials to avoid

no

Hazardous decomposition products

not by destinated use

Additional information

no

11. Toxicological information

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD 50 acute oral				no data available
LD 50 acute dermal				no data available
LC 50 acute inhalation				no data available
Irritability skin				low
Irritability eye				low irritant - must not be labelled
Sensitization skin				no
Sensitization respiratory system				no

Metaflux Leak Seek Spray

70-14

Subacute Toxicity - Carcinogenicity

Value	Species	Method	Validation
Subacute Toxicity			no data available
Subchronic Toxicity			no data available
Chronic Toxicity			no data available
Mutagenicity			no
Reproduction-Toxicity			no
Carcinogenicity			no
Toxicity test (Additional information) no			
Experiences made from practice no negative experience			
Additional information no			

! 12. Ecological information**Data on elimination (persistence and degradability)**

Elimination rate	Method of analysis	Method	Validation
Physico-chemical degradability			not applicable
Biological degradability			not determined
Degradability			not determined
Biological eliminability			not applicable
Degradability according to WRMG			not applicable
Mobility and bioaccumulative potential not determined			

Ecotoxicological effects

Value	Species	Method	Validation
Fish			no data available
Daphnia			no data available
Algae			no data available
Bacteria			no data available

Metaflux Leak Seek Spray

70-14

Behaviour in sewage plant

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

Breathing inhibition of activated sludge

Value	Method	Remark
EC 50		not determined

Additional ecological information

Value	Method	Remark
OC		not determined
COD		not determined
BOD		not determined
AOX		The product contains organically halogen, it can contribute to the adsorbable organic halogen value.

Contains following heavy metals and compounds of the 76/464/EWG

no

! 13. Disposal considerations**Waste code No.**

16 05 04

Name of waste

gases in pressure containers (including halons) containing dangerous substances

Recommendations for the product

empty cans: material recycling

filled cans: remove in accordance with local regulations

Recommendations for packaging

material recycling EWC 150104

Recommended cleansing agent

water

! General information

Give only emptied containers to recycling

14. Transport information**Land and inland navigation transport (ADR/RID/GGVS/GGVE/ADNR)****Identification** UN 1950 AEROSOLS, 2.2**UN-No.** 1950**Class** 2 / Classification code 5A**PG** -**Remarks**

Transportation as Limited Quantities (LQ 2); Marking: UN 1950 (rhombe)

Entry in the transportation document: Transportation according chapter 3.4 ADR

Metaflux Leak Seek Spray

70-14

Marine transport IMDG/GGV See

Proper shipping name	AEROSOLS
UN-No.	1950
Class	2
PG	-
Marine pollutant	No
EmS-No.	F-D, S-U

Remarks

Entry in transportation document: limited quantities

Marks: UN 1950 (rhombe)

Air transport ICAO/IATA

Proper shipping name	Aerosols, non-flammable
UN/ID-No.	UN1950
Class	2.2
PG	II

Remarks

UN-4G/Y fibre board boxes required

Label: Non-flammable gas

Marking: Aerosols, non-flammable UN 1950

Transport/further informations

ADR Transport Emergency Card: not required

! 15. Regulatory information**S-phrases**

25 Avoid contact with eyes.

! Special labelling for certain preparations

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

National regulations**Restriction of occupation**

no

Decree for case of interference/ remarks	not applicable
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Classification according to VbF/ remarks	not applicable
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German TA LUFT remarks

not applicable

Water hazard class	1	self-classification to German water pollution class
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Other regulations, restrictions and prohibition regulations

no

16. Other information**Training advice**

Use the entries of this Material Safety Data Sheet

Recommendend uses and restrictions

Observe care instructions

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Metaflux Leak Seek Spray

70-14

Sources of key data used

Material Safety Data Sheets of raw materials