
1. Identification of the substance/preparation

Name of product	Metaflux Anti-Spatter Spray Art-Nr. 70-04
Manufacturer/distributor	Techno-Service GmbH Detmolder Str.515, D-33605 Bielefeld Phone 0521/924440, Fax 0521-207432
Advice	Verkauf Phone 0521/9244420 Fax 0521/207432
Emergency advice	Zentrale Phone 0521/924440

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

water, polyethylene and polypropylene ethers, dinitrogen monoxide

! Hazardous ingredients

CAS-No.	Name	[% weight]	Classification
010024-97-2	Dinitrogenoxide	< 3	

Additional advice

intended use: protective spray for gas welding

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

no

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

unknown

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 protective equipment for firefighters

no

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

Storage temperature between 0°C to 30°C (=32°F to 86°F), maximum 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

Respiratory protection

Generally not required

Hand protection

Generally not required

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**
aerosol**Colour**
colourless**Odour**
hardly noticeable**Data relevant for safety**

	Value	Temperature	at	Method	Remark
pH value in delivery state	8 - 8,5	20 °C			dispersion in water
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	ca. 1,02 g/cm ³	20 °C			
Bulk density					not applicable
Rel. vapour density					not applicable

Safety data-sheet (91/155 EEC)

Printed 19.05.2003

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	Value	Temperature	at	Method	Remark
Solubility in water					multimiscible
Solubility/other					not applicable
Partition coefficient (log p_{OW})					not determined
Viscosity 1					not applicable
Viscosit 2					not applicable
Solvent separation test					not applicable
Solvent concentration	not applicable				no
Combustion value	not applicable				
Shock sensitivity	not applicable			not applicable	
Oxidizing properties					no
Explosive properties					Danger of bursting by overheating
Additional information					no

10. Stability and reactivity

Conditions to avoid

no

Materials to avoid

no

Hazardous decomposition products

No hazardous decomposition products known.

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				no
Irritability eye				low

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Value/Validation	Species	Method	Remark
Sensitization skin			no
Sensitization respiratory system			no
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
Additional information			no

12. Ecological information

Data on elimination (persistence and degradability)

Elimination rate	Method of analysis	Method	Validation
Physico-chemical degradability			The product doesn't reach sewage by using as destined
Biological degradability			The product doesn't reach sewage by using as destined
Degradability			The product doesn't reach sewage by using as destined
Biological eliminability	The product doesn't reach sewage by using as destined		Readily eliminable from water
Degradability according to WRMG	The product doesn't reach sewage by using as destined		Biodegradable
Mobility and bioaccumulative potential			not applicable

Ecotoxicological effects

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

Behaviour in sewage plant

The product doesn't reach sewage by using as destined

Additional ecological information

Value	Method	Remark
OC		no data available
COD		no data available
BOD		no data available
AOX	no	

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

no

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

16 05 05

Name of waste

gases in pressure containers other than those mentioned in 16 05 04

! Recommendations for the product

Material recycling possible.

Recommendations for packaging

material recycling EWC 150104

Recommended cleansing agent

no

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 / Code 5A
PG	-
Hazard Label	2.2

! Remarks

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

Entry in the transportation document: Transportation according chapter 3.4 ADR

Marine transport IMDG/GGV See

Proper shipping name	AEROSOLS
UN-No.	1950
Class	2
PG	-
Marine pollutant	No
EmS-No.	2-13

Remarks

Entry in transportation document: limited quantities

Marks: AEROSOLS UN 1950

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**Classification**

n.a. not applicable

! 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
		no

Other regulations, restrictions and prohibition regulations

no

! 16. Other information

Training advice

Use the entries of this Material Safety Data Sheet

Recommend uses and restrictions

Observe care instructions

Sources of key data used

Material Safety Data Sheets of raw materials