

Safety data sheet (91/155 EEC)

Printed 22.08.2002

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**METAFLUX WELD COPPER SPRAY
70-49**

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1. Identification of the substance/preparation

Name of product Metaflux Weld Copper Spray
Art Nr 70-49

Manufacturer/distributor Metatec Metaflux Ltd
Fitzherbert Road.
Portsmouth
Hants PO6 1RU

Emergency Advice 02392 381382 (PHONE)
02392 380888 (FAX)
e mail metatec.sales@btconnect.com

!2. Composition/information on ingredients

Chemical characterization
Copper metal, polyolefin resin, aliphatic hydrocarbon solvent, propane/butane

!Hazardous ingredients

<u>CAS-No</u>	<u>Name</u>	<u>(% weight)</u>	<u>(classification)</u>	
000074-98-6	propane	10-15	F+	R12
000106 97-8	butane	50-55	F+	R12
064742 49-0	Naphtha (petroleum), hydrotreated light	15-19,9	Xn	R11-38-51/ 53-65-67
			F, N	

!Additional Advice

Classification and labelling Xn/R65 is not required for preparations in aerosols containing > = 10% of hydrocarbon solvents (s. Directive 96/54/EC, Annex V, No 8.4)
Use: corrosion protection and agent for welding

!3. Special hazards information for man and environment

!R Phrases

12 Extremely flammable
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
67 Vapours may cause drowsiness and dizziness

When used formation of explosive gas/air mixtures may be possible

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4. First Aid measures

General information	Take affected person into fresh air
In case of inhalation	In case of inhalation remove the casualty into fresh air and seek medical advice
In case of skin contact	In case of contact with skin was off immediately with soap and water
In case of eye contact	Rinse eyes with water carefully while protecting unhurt eye
In case of ingestion	Seek medical advise immediately. Rinse out mouth thoroughly with water
Physician's information / possible symptoms	Unknown
Physician's information / possible dangers	Risk of aspiration by vomiting if swallowed, also without vomiting
Treatment (advice to doctor)	Treat symptoms

5 Fire-fighting measures

Suitable extinguishing material	Foam. Dry Powder. Carbon dioxide
Extinguishing material that may not be used for safety reasons	Full water jet
Special exposure hazards arising from the substance, combustible products or resulting gases	Risk of bursting by fire heat
Special protective equipment for firefighters	Use breathing apparatus with independent air supply
Additional information	Cool containers at risk with water spray jet

!6 Accidental release measures

Personal precautions	Ensure adequate ventilation. Keep away sources of ignition
Environmental precautions	None
Methods for cleaning up / taking up	Stem and take up with absorbent material (e.g. sand, peat, earth)
!Additional information	Keep off any handling equipment with engines (source of ignition)

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 by fire heat
Requirements for storage rooms and vessels	Observe National and Local regulations
Advice on storage compatibility	None
Further information on storage conditions	Protect from direct solar radiation
Storage group	2B
Fire Class	C
Information on storage stability	Storage time : 24 months

!8 Exposure controls/personal protection

Additional advice on system design	Use only in well ventilated area
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!Ingredients with occupational exposure limits to be monitored

CAS – No	Name	Code	(mg/m³)	(ml/m³)	Remark
000074-98-6	propane	MAK	1800	1000	
000106-97-8	butane	MAK	2400	1000	
064742-49-0	hydrocarbon vapours	MAK	1000	200	

!Respiratory protection	Generally not required, required by exceeding the limit values. Filter A or environment-independent breathing apparatus
Hand protection	Generally not required
Eye protection	Generally not required
Skin protection	Generally not required
General protective measures	Do not inhale aerosols
Hygiene measures	At work do not eat, drink, smoke or take drugs

!9 Physical and chemical properties

Form	Colour	Odour
Aerosol	copper-coloured	like petrol (gasoline)

Data relevant for safety	Value	Temperature at	Method	Remark
pH value in delivery state				not applicable
Acid number				not applicable
Changes in physical state solid/fluid				not applicable
Changes in physical state gas				not applicable
Flash point				not applicable

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Flammable solid		not applicable
Flammable gas		not applicable
Combustion temperature		not applicable
Autoignition		not applicable
Lower explosion limit	ca. 1,5 Vol-%	informations concern to propellant only
Upper explosion limit	ca. 11 Vol-%	informations concern to propellant only
Vapour pressure	3700 hPa 20° C	
Density	ca. 0.66 g/cm ³ 20° C	
Bulk density		not applicable
Rel. vapour density		not applicable
Solubility in water		insoluble
Solubility/other		organic solvent
Partition coefficient (log p _{OW})		not determined
Viscosity 1		not applicable
Viscosity 2		not applicable
Solvent separation test		not applicable
Solvent concentration	18%	
Explosive properties	When used formation of explosive mixtures may be possible	
Additional information		no

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10 **Stability and reactivity**

Conditions to avoid

Near ignition sources (sparks, flames, glow)

Materials to avoid

No

Hazardous decomposition product

No hazardous decomposition products known

Thermal decomposition

Method not applicable

Remark none

Additional information none

!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
Sensitization skin				none
Sensitization respiratory system				none

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Subacute Toxicity – Carcinogenicity

Value	Species	Method	Validation
Subacute Toxicity			no data available
Subchronic Toxicity			no data available
Chronic Toxicity			no data available
Mutagenicity			none
Reproduction – Toxicity			none
Carcinogenicity			none
Toxicity test (Additional information)			none
Experiences made from practice			no negative experience
Additional information			none

!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			

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Degradability

According to WRMG The product doesn't reach sewage by using as destined

Mobility and bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

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

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	no	
Contains following heavy metals and compounds of the 76/464/EWG		no

! General regulation

VOC = 0.222 kg/spray-can

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!13 Disposal Conditions

Waste code No

Name of waste

07 06 04

other organic solvents, washing liquids and other liquors

16 05 05

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

Recommendations for the product

Material recycling according to National or Local regulations

! Recommendations for packaging

Material recycling EWC 150104

! Recommended cleansing agent

Hydrocarbon solvent

! General information

Give only emptied containers to recycling

!14 Transport Information

Land and Inland navigation transport (ADR/RID/GGVS/GGVE/ADNR)

Identification 1950 Aerosols 2 ADR

UN-No 1950

Class 2

Hazard No. 23

!Remark

Marking: UN 1950 (rhombe)

Entry in transportation document: shipped acc. to 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

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Air Transport ICAO/IATA
Proper shipping name Aerosols, flammable
UN/ID-No UN 1950
Class 2.1
PG II
Remarks
UN-4G/Y fibre board boxes required
Label: Flammable Gas
Marking: Aerosol, flammable UN 1950

Transport/further information
ADR Transport Emergency Card: not required

!15 **Regulatory information**

Classification

F+ Extremely flammable

! R-phrases

12 Extremely flammable
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
67 Vapours may cause drowsiness and dizziness

! S-phrases

23.3 Do not breathe vapour
24/25 Avoid contact with skin and eyes
51 Use only in well-ventilated areas

! 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.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – no smoking.
Keep out of the reach of children
Without sufficient ventilation formation of explosive mixtures may be possible

National regulations

Restriction of occupation No
Decree for case of interference remarks Not applicable
Classification according to VbF/ remarks Not applicable

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German TA LUFT remarks

Not applicable

Water hazard class

1 German water pollution classification

Other regulations, restrictions and prohibition regulations - None

! 16 Other information

Training advice

Use the entries of this Material Safety Data Sheet

Recommended uses and restrictions

Observe care instructions

! Further information

The regulations of EU – Directive 98/98/EC, 1999/45/EC, 2001/58/EC and 2001/59/EC are taken into consideration

Sources of key data used

Material Safety Data Sheets of raw materials

