

**1. Identification of the substance/preparation**

<b>Name of product</b>	<b>Metaflux Corrosion Protector Wax Spray</b> Art-Nr. 70-39
<b>Manufacturer/distributor</b>	Techno-Service GmbH Detmolder Str.515, D-33605 Bielefeld Phone 0521/924440, Fax 0521-207432  Internet www.metaflux-ts.de
<b>Advice</b>	Phone 0521/9244420 Fax 0521/207432
<b>Emergency advice</b>	Phone 0521/924440

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

waxes, organic solvents, propane/butane

**Hazardous ingredients**

<b>CAS-No.</b>	<b>Name</b>	<b>[% weight]</b>	<b>Classification</b>
000074-98-6	propane	10 - 15	F+ R12
000106-97-8	butane	45 - 50	F+ R12
064742-48-9	Naphtha (petroleum), hydrotreated heavy	5 - 10	Xn R10-65-66-67
064742-49-0	Naphtha (petroleum), hydrotreated light	10 - 15,9	Xn; R11-38-51/53-65-67 F; N
064742-82-1	Naphtha (petroleum), hydrodesulfurized heavy	5 - 9	Xn, N R10-51/53-65-66-67

**! Additional advice**Classification and labelling Xn/R65 is not required for preparations in aerosols containing  $\geq 10\%$  of hydrocarbon solvents (s. Directive 96/54/EC, Annex V, No.8.4)

Use :Corrosion protection for metals

R-Phrases see chapter 16

**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.

**Special hazards information for humans and environment**

Risk of bursting at temperatures above 50°C

Preparation is classified as hazardous in the sense of directive 1999/45/EC.

By use or accidental release formation of explosive mixtures with air.

**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 wash off immediately with soap and water.

**In case of eye contact**

Eye rinsing with water carefully while protecting unhurt eye.

**In case of ingestion**

Seek medical advice 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.

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**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**

Remove from fire range, otherwise cool with water spary mist to prevent from bursting by fire heat.

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**6. Accidental release measures**

**Personal precautions**

Ensure adequate ventillation.

Keep away sources of ignition.

**Environmental precautions**

Product shall not reach the drain or soil.

**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)

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**7. Handling and storage**

**Advice on safe handling**

Keep away from sources of ignition

Use only in well-ventilated areas.

**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**

Protect from heat and direct solar radiation.

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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

**! Ingredients with occupational exposure limits to be monitored**

CAS-No.	Name	Code	[mg/m <sup>3</sup> ]	[ml/m <sup>3</sup> ]	Remark
000074-98-6	Propane	MAK	1800	1000	DFG
000106-97-8	Butane	MAK	2400	1000	DFG
064742-48-9	hydrocarbon vapours		1000	200	
064742-82-1	hydrocarbon vapours	MAK	200	50	
64742-49-0	hydrocarbon vapours	MAK	1000	200	

**Respiratory protection**

Generally not required

**Hand protection**

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

**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**  
aerosol**Colour**  
yellowish**Odour**  
like petrol (gasoline )**Data relevant for safety**

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>					not applicable
<b>Acid number</b>					not applicable
<b>Changes in physical state solid/fluid</b>					not applicable
<b>Changes in physical state gas</b>					not applicable
<b>Flash point</b>	< 0 °C				informations concern to solvent

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	Value	Temperature	at	Method	Remark
<b>Flammable solid</b>					not applicable
<b>Flammable gas</b>					not applicable
<b>Combustion temperature</b>					not applicable
<b>Autoignition</b>					not applicable
<b>Lower explosion limit</b>	env. 1,5 % en vol.				informations concern to propellant only
<b>Upper explosion limit</b>	env. 11 % en vol.				informations concern to propellant only
<b>Vapour pressure</b>	ca. 2800 hPa	20 °C			
<b>Density</b>	ca. 0,63 g/cm <sup>3</sup>	20 °C			
<b>Bulk density</b>					not applicable
<b>Rel. vapour density</b>					not applicable
<b>Solubility in water</b>					insoluble
<b>Solubility/other</b>					organic solvent
<b>Partition coefficient (log pOW)</b>					not determined
<b>Viscosity 1</b>					not applicable
<b>Viscosit 2</b>					not applicable
<b>Solvent separation test</b>					not applicable
<b>Solvent concentration</b>	35 %				
<b>Oxidizing properties</b>	no				
<b>Explosive properties</b>	When used formation of explosive mixtures may be possible				
<b>Additional information</b>	no				

## 10. Stability and reactivity

**Conditions to avoid**

near ignition sources(sparks, flames, glow)

**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
<b>LD 50 acute oral</b>				no data available
<b>LD 50 acute dermal</b>				no data available
<b>LC 50 acute inhalation</b>				no data available
<b>Irritability skin</b>				low
<b>Irritability eye</b>				low
<b>Sensitization skin</b>				no
<b>Sensitization respiratory system</b>				no

**Subacute Toxicity - Carcinogenicity**

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

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

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	The product doesn't reach sewage by using as destinated			

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	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	The product doesn't reach sewage by using as destinated			
<b>Degradability</b>	The product doesn't reach sewage by using as destinated			
<b>Biological eliminability</b>	The product doesn't reach sewage by using as destinated			
<b>Degradability according to WRMG</b>	The product doesn't reach sewage by using as destinated			

**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
<b>Fish</b>			no data available
<b>Daphnia</b>			no data available
<b>Algae</b>			no data available
<b>Bacteria</b>			no data available

**Behaviour in sewage plant**

The product doesn't reach sewage by using as destinated

**Breathing inhibition of activated sludge**

Value	Method	Remark
<b>EC 50</b>		not determined

**Additional ecological information**

Value	Method	Remark
<b>OC</b>		not determined
<b>COD</b>		not determined
<b>BOD</b>		not determined
<b>AOX</b>	no	

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

no

**General regulation**

VOC = 0.232 kg/can

**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**

Hydrocarbon solvent

**General information**

Give only emptied containers to recycling

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**14. Transport information****Land and inland navigation transport (ADR/RID/GGVS/GGVE/ADNR)****Identification** UN 1950 AEROSOLS, 2.1**UN-No.** 1950**Class** 2 / Classification code 5F**PG** -**Remarks**

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

Entry in the transportation document: Transportation according chapter3.4 ADR

**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, flammable**UN/ID-No.** UN1950**Class** 2.1**PG** -**Remarks**

UN-4G/Y fibre board boxes required

Label: Flammable Gas

Marking: Aerosols, flammable UN 1950

**Transport/further informations**

ADR Transport Emergency Card: not required

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**! 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.  
35 This material and its container must be disposed of in a safe way.  
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

**Classification according BetrSichV (german regulation)** Extremely flammable

**Water hazard class** 1 self-classification to German water pollution class

**Other regulations, restrictions and prohibition regulations**

no

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**16. Other information**

**Training advice**

Use the entries of this Material Safety Data Sheet

**Recommend uses and restrictions**

Observe care instructions

**Further information**

R-Phrases from chapter 2 (not the classification of the product):

R 11: Highly flammable

R 12: Extremely flammable

R 67: Vapours may cause drowsiness and dizziness.

R 66: Repeated exposure may cause skin dryness or cracking.

R 65: Harmful: may cause lung damage if swallowed.

R 38 :Irritating to skin.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 10: Flammable

**Sources of key data used**

Material Safety Data Sheets of raw materials