

Metaflux Belt-Spray

70-06

1. Identification of the substance/preparation

Name of product	Metaflux Belt-Spray Art-Nr. 70-06
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**

Polyolefins, organic Solvents, Propane/Butane

! Hazardous ingredients

CAS-No.	Name	[% weight]	Classification	
000074-98-6	propane	< 5	F+	R12
000106-97-8	butane	15 - 20	F+	R12
000109-87-5	Methylal	25 - 30	F	R11
064742-49-0	Naphtha (petroleum), hydrotreated light	< 15	Xn; F; N	R11-38-51/53-65-67

Additional adviceClassification 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)

to CAS-No. 64742-49-0 : This material contains < 0.1 Benzene and must not be classified as carcinogenic (nota P)

Use: Anti-slip agent for V-belts

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.

Special hazards information for humans and environment

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

4. First aid measures**General information**

Do not leave casualty unattended.

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 with soap and 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

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

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

6. Accidental release measures

Personal precautions

Ensure adequate ventilation.

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)

7. Handling and storage

Advice on safe handling

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

Storage temperature between 0°C to 30°C (=32°F to 86°F), maximum 50°C (=122°F).

Metaflux Belt-Spray

70-06

Storage group 2B**Fire class** C**Information on storage stability**

Storage time above 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 ³]	[ml/m ³]	Remark
000074-98-6	propane	MAK	1800	1000	
000106-97-8	butane	MAK	2400	1000	
000109-87-5	dimethoxymethane	MAK	3200	1000	
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)

Eye protection

Generally not required

Skin protection

Generally not required

General protective measures

Do not inhale aerosols

Hygiene measures

Cloths contaminated with product should not be kept in trouser pockets.

9. Physical and chemical properties**Form**
aerosol**Colour**
yellowish**Odour**
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	< 0 °C				Flammpunkt nicht messbar - Angabe ist abgeschätzt

Safety data-sheet (91/155 EEC)

Printed 13.10.2003

Revision 13.10.2003

Metaflux Belt-Spray

70-06

	Value	Temperature	at	Method	Remark
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	ca. 2000 - 2500 hPa	20 °C			
Density	ca. 0,71 - 0,73 g/cm ³	20 °C			
Bulk density					not applicable
Rel. vapour density					not applicable
Solubility in water					partially miscible
Solubility/other					organic solvent
Partition coefficient (log p_{OW})					not determined
Viscosity 1					not applicable
Viscosit 2					not applicable
Solvent separation test					not applicable
Solvent concentration	ca. 40 %				
Explosive properties	When used formation of explosive mixtures may be possible				
Additional information	no				

10. Stability and reactivity

Conditions to avoid

near ignition sources(sparks, flames, glow)

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
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
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	The product doesn't reach sewage by using as destinated			

Safety data-sheet (91/155 EEC)

Printed 13.10.2003

Revision 13.10.2003

Metaflux Belt-Spray

70-06

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

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 destinated

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

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

material recycling according to National or Local regulations

Recommendations for packaging

material recycling EWC 150104

Recommended cleansing agent

Hydrocarbon solvent

Metaflux Belt-Spray

70-06

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

! 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.

! S-phrases

23.4 Do not breathe spray.
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

German TA LUFT remarks

not applicable

Water hazard class

1

german water pollution classification

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

Further information

R-Phrases from chapter 2:

R 11: Highly flammable

R 12: Extremely flammable

R 67: Vapours may cause drowsiness and dizziness.

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.

Sources of key data used

Material Safety Data Sheets of raw materials