

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



Product name : SCHWEGO® PLUS 8441
Revision : 16.11.2009 **Version :** 1.0.0
Print date : 29.03.2010

01. Identification of the substance/mixture and of the company/undertaking

Product name

SCHWEGO® PLUS 8441 (8441)

Use of the substance / mixture

Printing chemical for industrial and/or professional use

Manufacturer/Supplier

Bernd Schwegmann GmbH & Co. KG

Street/P.O.Box

Wernher-von-Braun-Str. 14

Country code/Postal code/Town/City

D-53501 Grafschaft-Gelsdorf

Telephone / Telefax

+49 22 25 / 92 26-0 / +49 22 25 / 92 26-48

Contact person Material Safety Data Sheet

E-Mail: MSDS@SchwegmannNet.de

Emergency information

+49 61 31 / 19 24 0 (Universitätsklinikum Mainz)

02. Hazards identification

Classification

Flammable. · Harmful: may cause lung damage if swallowed.

Classification : R 10 · Xn ; R 65 · R 66

03. Composition/information on ingredients

Chemical characterization

Solvent mixture with mineral oil distillates and additives.

Hazardous components

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (BENZENE < 0,1 %) ; EC-No. : 265-150-3; CAS-No. : 64742-48-9

Percentage : 35 - 50 %

Classification : R 10 Xn ; R 65 R 66

1-METHOXY-2-PROPANOL ; EC-No. : 203-539-1; CAS-No. : 107-98-2

Percentage : 15 - 25 %

Classification : R 10 Substance with a Community workplace exposure limit.

2-BUTOXYETHANOL ; EC-No. : 203-905-0; CAS-No. : 111-76-2

Percentage : 5 - 15 %

Classification : Xn ; R 20/21/22 Xi ; R 36/38

For the wording of the listed risk phrases refer to section 16.

04. First-aid measures

General

Immediately remove all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical attention.

After inhalation

Let in fresh air.

After skin contact

Wash away with soap and water and rinse.

After eye contact

Flush with plenty of water (10 - 15 min.).

After ingestion

Do not induce vomiting.

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Danger of aspiration
Rinse mouth with cold water.
Never give an unconscious person anything by mouth.
After first aid treatment immediately seek medical advice.

Notes to a physician

No data available.

05. Fire-fighting measures

Suitable extinguishing media

Water spray jet. Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

Special risk posed by the substance or by the actual mixture, its combustion products or gases discharged

In case of fire toxic gases may be formed: Carbon monoxide.

Special protective equipment

When extinguishing fires, use breathing apparatus with an independent source of air.

Additional information

Cool endangered containers with water in case of fire.
Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions

Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not allow discharge into bodies of water, the soil or the sewage system.

Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

Additional information

Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours. Provide for sufficient ventilation.

07. Handling and storage

Information for safe handling

Normal precautions taken when handling chemicals should be observed.
Avoid contact with skin and eyes.

Information about protection against explosions and fires

Protect liquid against evaporation.
Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit).
Take precautionary measures against static discharges.
Electrical facilities must comply with the Explosion Protection Standard.

Ignition group : T3

Flammable class : B

Requirements to be met by storerooms and containers

Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Store in an area with solvent resistant flooring or on a drip pan, so that the groundwater will remain unaffected if a leak occurs.
Other special storage requirements, such as support walls for example, are to be determined by the user, subject to the amount being stored.

Information about separation of incompatible products

Keep away from strong oxidising agents.

Further information about storage conditions

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Store containers tightly closed in a cool well ventilated place.
Avoid heating over 30° C.

Storage class : 3

Specific uses

Deep down cleaner, rejuvenator and impregnator for rubber blankets and ink rollers
For further information refer to our technical data sheet.

08. Exposure controls/personal protection

Additional information about engineering measures

Make sure that ventilation is adequate. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Components with critical values that require monitoring at the workplace (exposure limits)

The usual precautionary measures for the handling of chemicals have to be observed.

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (BENZENE < 0,1 %) ; CAS-No. : 64742-48-9

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Parameter : (RCP-Method)
Value : 600 mg/m³
Category : 2(II)
Remarks : AGS
Version date : 27.12.2007

1-METHOXY-2-PROPANOL ; CAS-No. : 107-98-2

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 100 ppm / 370 mg/m³
Category : 2(I)
Remarks : Y
Version date : 01.04.2007

2-BUTOXYETHANOL ; CAS-No. : 111-76-2

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 20 ppm / 98 mg/m³
Category : 4(II)
Remarks : H,Y
Version date : 01.04.2007

Specification : TRGS 903 - biological maximum limits (D)
Parameter : Butoxy acetic acid / urine / in cases of long term exposure after several shifts
Value : 100 mg/l
Version date : 31.03.2004

References to the thresholds

Recommended analysis methods for workplace readings: See the series of publications by the German Federal Institute for Occupational Safety and Medicine (Bundesanstalt für Arbeitsschutz und Arbeitsmedizin - BAuA)¹

Personal protective equipment

Respiratory protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn.
Filter: Filter model A1. Can be used up to a maximum concentration of 1000 ppm.

Hand protection

Solvent-resistant protective gloves according EN 420 and EN 374 part 1 - 3 must be worn.
Gloves, for example Viton® rubber,
Thick (mm): 0,7
Penetration time (s): > 28800 (LEVEL 6) (Literature value)

Eye protection

Use safety goggles with side protection, which comply with EN 166:2001.

Environmental precautions

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Refer to protective measures listed in section 6.

09. Physical and chemical properties

Image

Form : Liquid.
Colour : Colourless.
Odour : Like ester.

Relevant safety data

Flow time :	(23 °C)	<	30	s	ISO cup 4 mm
Melting point / range :		<	-10	°C	literature
Boiling point / range :	(1013 hPa)	>	160	°C	literature
Flash point :			32	°C	ISO 1523
Ignition temperature :		>	240	°C	DIN 51794
Lower explosion limit :			0,6	% b.v.	literature
Upper explosion limit :			9	% b.v.	literature
Vapour pressure :	(50 °C)	<	0,15	bar	(calculated)
Density :	(20 °C)		0,85	g/cm ³	DIN EN ISO 2811-1
Solubility in water :	(20 °C)	>	200	g/l	(calculated)
pH value :	(20 °C)				DIN 19268
Flow time :	(20 °C)	<	20	s	DIN-cup 4 mm
Content VOC (EC) :			78	% b.w.	(calculated)

Additional information

The designation of explosive limits refers to the flammable mixture constituents and not to the overall product.
The VOC concentration was calculated using the difference method according to ISO 11890-1.
Additional physico-chemical data is unavailable.

10. Stability and reactivity

Conditions to avoid

None, if handled according to order.

Materials to avoid

Reaction with oxidizing agents possible.

Hazardous decomposition products

None known.

11. Toxicological information

Toxicological tests

Acute toxicity, skin irritation, mucous membrane irritation, genetic altering potential and skin sensitivity will be assessed by the manufacturer based on the available component data.

Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

12. Ecological information

Details on elimination (persistence / degradability)

Possibility to eliminate the product out of sewage:
Oil and fat separators.
Flocculation.

Ecotoxicological effects

Only incomplete ecotoxicological data is available for this product. The following information is based in part on component insight as well as on the ecotoxicological properties of comparable products.
The product is biodegradable.

Results of PBT assessment

According to our data the product does not contain PBT-substances.

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13. Disposal considerations

Substance / mixture

In accordance with local official regulations. Remove in accordance with regulations.

Recommendation

Precise waste material code to be agreed upon with waste disposer

Waste key

EC-Waste Code: 16 03 05

Contaminated packaging

Recommendation

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant.

14. Transport information

Land transport ADR/RID

Classification

Class : 3 Kemlercode : 30
UN number : 1993 Classification-Code : F1

Special provisions : 640E · LQ 7 · Tunnel restriction code : (D/E)

Proper shipping name

FLAMMABLE LIQUID, N.O.S.

Hazardous components

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (BENZENE < 0,1 %) · 1-METHOXY-2-PROPANOL

Packaging

Packaging group : III
Label : 3

Maritime transport IMDG/GGVSea

Classification

Class: 3 EmS number : F-E / S-E
UN number : 1993 Marine Poll. : -

LQ 5 I

Proper shipping name

FLAMMABLE LIQUID, N.O.S.

Hazardous components

WHITE SPIRIT · 1-METHOXY-2-PROPANOL

Packaging

Packaging group : III
Label : 3

Air transport ICAO-TI and IATA-DGR

Classification

Class : 3
UN number : 1993

Proper shipping name

FLAMMABLE LIQUID, N.O.S.

Hazardous components

WHITE SPIRIT · 1-METHOXY-2-PROPANOL

Packaging

Packaging group : III
Label : 3

15. Regulatory information

A chemical safety assessment has not been carried out for this product (mixture).

Classification according to EC directives

Danger symbol and danger designation

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Xn ; Harmful

R-phrases

- 10 Flammable.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.

S-phrases

- 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.
37 Wear suitable gloves.
23 Do not breathe gas/fumes/vapour/spray
24 Avoid contact with skin.

National regulatory information

Water pollution classification

Class : 1 according VwVwS

16. Other information

Literature:

¹ <http://www.baua.de>

² <http://www.arbeitssicherheit.de>

Restrictions on use recommended by the manufacturer

Private consumer are advised not to use this product.

Processing instructions / technical data sheets

See also data sheet: "BG-Chemie": M050 Umgang mit gesundheitsgefährlichen Stoffen ²

Further information

The details in this material safety data sheet satisfy national and EC legislation.

Relevant changes

03. Hazardous components · 04. First-aid measures · 07. Handling and storage · 08. Components with critical values that require monitoring at the workplace (exposure limits) · 09. Physical and chemical properties · 12. Ecological information · 14. Classification (ADR) · 14. Proper shipping name (ADR) · 14. Maritime transport IMDG/GGVSea · 14. Proper shipping name (IMDG) · 14. Proper shipping name (ICAO) · 15. Regulatory information

R-Phrases of components

The details refer to the separate ingredients, not to the product.

- 10 Flammable.
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
36/38 Irritating to eyes and skin.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.

Contact

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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.