

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SCHWEGmann 

Trade name : MITTEL S
Revision date : 27.06.2018
Print date : 28.06.2018

Version (Revision) : 4.0.0 (3.2.0)
Supersedes date : 27.06.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

MITTEL S (8043)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Defoamer

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Bernd Schwegmann GmbH & Co. KG

Street : Wernher-von-Braun-Str. 14

Postal code/city : DE-53501 Grafshaft-Gelsdorf

Telephone : +49 22 25 / 92 26-0

Telefax : +49 22 25 / 92 26-48

e-mail address of competent person for MSDS: MSDS@SchwegmannNet.de

1.4 Emergency telephone number

+49 (0) 61 31 / 19 24 0 (POISON CENTER, 24 h in English and German)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Flame (GHS02) · Health hazard (GHS08) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

Hydrocarbons, C10-C13, n-alkanes, isoalkanes cyclene, < 2% aromatics/ Naphtha (petroleum) , hydrotreated heavy

Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromatics (2-25%) / Naphtha (petroleum), hydrodesulfurized heavy

Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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P233 smoking.
P233 Keep container tightly closed.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P310 Immediately call a POISON CENTER/doctor.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P403+P235 Store in a well-ventilated place. Keep cool.

Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

Hydrocarbons, C10-C13, n-alkanes, isoalkanes cyclene, < 2% aromatics/ Naphtha (petroleum), hydrotreated heavy (Benzene < 0,1 %) ; REACH registration No. : 01-2119463258-33 ; EC/List No. : 919-857-5; CAS No. : 64742-48-9

Weight fraction : ≥ 85 - < 100 %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336

Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromatics (2-25%) / Naphtha (petroleum), hydrosulfurized heavy (Benzene < 0,1 %) ; REACH registration No. : 01-2119458049-33 ; EC/List No. : 919-446-0; CAS No. : 64742-82-1

Weight fraction : ≥ 1 - < 3 %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 1 ; H372 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

Additional information

Full text of H- and EUH-phrases: see section 16.

3.3 Additional information

Materials that are listed in the so-called "Candidate List of Substances of Very High Concern (SVHC) for authorisation³", issued by the ECHA, are not intentionally any part of this product. It is therefore not to be expected that such materials are present in quantities $\geq 0,1$ % in the product.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.
When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Provide fresh air.
In case of respiratory tract irritation, consult a physician.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.
In case of skin reactions, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.
Protect uninjured eye.

After ingestion

Do NOT induce vomiting.
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person or a person with cramps.
Observe risk of aspiration if vomiting occurs.
Call a physician in any case!

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4.2 Most important symptoms and effects, both acute and delayed

See section 2.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam. Carbon dioxide (CO₂). Extinguishing powder. Water mist

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO₂).

Possible in traces: Formaldehyde

The formation of combustible vapours is possible at temperatures above: 20° C

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Provide adequate ventilation.

See protective measures under chapter 7 and 8.

For emergency responders

Prevent spread over a wide area (e.g. by containment or oil barriers).

Personal protection equipment: see section 8

6.2 Environmental precautions

Clear spills immediately. Do not allow to enter into soil/subsoil.

Cover drains. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal.

6.4 Reference to other sections

Safe handling: see section 7

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

When using do not eat, drink, smoke, sniff.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500¹.

Measures to prevent fire

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Remove all sources of ignition.

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Take precautionary measures against static discharges. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Ignition group : T3
Fire class : B

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.
Floors should be impervious, resistant to liquids and easy to clean. No ground outlets on containers.

Packaging materials

Keep/Store only in original container.

Requirements for storage rooms and vessels

Protect containers against damage.
Keep in a cool, well-ventilated place.

Hints on joint storage

Keep away from: Oxidising agent

Storage class (LGK) : 3

7.3 Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

Hydrocarbons, C10-C13, n-alkanes, isoalkanes cyclene, < 2% aromatics/ Naphtha (petroleum), hydrotreated heavy (Benzene < 0,1 %) ; CAS No. : 64742-48-9

Limit value type (country of origin) : TRGS 900 (D)

Parameter : (RCP-Method)

Limit value : 300 mg/m³

Peak limitation : 2(II)

Remark : AGS

Version : 01.09.2017

Hydrocarbons, C9-C12, n-Alkanes, Isoalkanes, Cyclics, Aromatics (2-25%) / Naphtha (petroleum), hydrodesulfurized heavy (Benzene < 0,1 %) ; CAS No. : 64742-82-1

Limit value type (country of origin) : TRGS 900 (D)

Parameter : (RCP-Method)

Limit value : 150 mg/m³

Peak limitation : 2(II)

Remark : AGS

Version : 01.09.2017

Calculated exposure value for the mentioned mixture of hydrocarbons according to German Regulations

Limit value type (country of origin) : TRGS 900 (D)

Parameter : (RCP-Method)

Limit value : 300 mg/m³

Peak limitation : 2(II)

Remark : AGS

Version : 01.09.2017

Recommended monitoring procedures

See the series of publications by the German Federal Institute for Occupational Safety and Medicine (Bundesanstalt für Arbeitsschutz und Arbeitsmedizin - BAuA)¹ and BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents."

8.2 Exposure controls

Appropriate engineering controls

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If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Hand protection

Suitable material : FKM (fluoro rubber)

Breakthrough time (maximum wearing time) : > 7200 s (LEVEL 4)

Thickness of the glove material (mm) : 0,7

Additional hand protection measures : Wear cotton undermitten if possible.

Remark : For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus: Combination filtering device (EN 14387) A - P 2

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : liquid

Colour : clear , colourless

Odour

characteristic

Safety relevant basis data

Flow time :	(23 °C)	20 - 25 s	ISO 2431 (Flow cup 3 mm)
Melting point/melting range :	(1013 hPa)	< -20 °C	
Initial boiling point and boiling range :	(1013 hPa)	> 140 °C	Literature value
Decomposition temperature :		No data available	
Flash point :		37 °C	ISO 1523
Ignition temperature :		> 200 °C	DIN 51794
Oxidizing properties :		not applicable	
Lower explosion limit :		0,6 Vol-%	Literature value
Upper explosion limit :		7 Vol-%	Literature value
Vapour pressure :	(50 °C)	< 0,03 bar	(calculated)
Density :	(20 °C)	0,76 - 0,79 g/cm ³	ISO 2811-1
Vapour density :	(20 °C)	No data available	
Relative density (aqua = 1) :	(20 °C)	0,76 - 0,79	
Water solubility :	(20 °C)	< 1 g/l	(calculated)
pH :	(20 °C)	not applicable	DIN 19268
log P_{o/w} :		No data available	Literature value, solvent
Kinematic viscosity :	(40 °C)	< 20 mm ² /s	ISO 3105
Odour threshold :		No data available	
Vapourisation rate :		No data available	Literature value, solvent
Maximum VOC content (EC) :		98 Wt %	Directive 2010/75/EU
Maximum VOC content		98 Wt %	(calculated)

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(Switzerland) :

Flammable solids : Not applicable.
Oxidising liquids : Not oxidising.
Explosive properties : Not explosive according to EU A.14.

9.2 Other information

The VOC concentration was calculated by a method analogical to standard ISO11890-1.
The designation of explosive limits refers to the flammable mixture constituents and not to the overall product.
Additional physical-chemical data are not available / have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

There are no data available on the mixture itself.

10.2 Chemical stability

The product is chemically stable under normal ambient conditions (+20° C room temperature).

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Only use the material in places where open light, fire and other flammable sources can be kept away.

10.5 Incompatible materials

Oxidising agent

10.6 Hazardous decomposition products

In case of warming: Vapours can form explosive mixtures with air.
> 150° C Formation of: Formaldehyde

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Based on available data, the classification criteria are not met.

Acute oral toxicity

Mixture not tested.

Acute dermal toxicity

Mixture not tested.

Acute inhalation toxicity

Mixture not tested.

Irritant and corrosive effects

Results from in vitro test for skin corrosivity/irritancy: : Mixture not tested.
Serious eye damage/eye irritation : Mixture not tested.

Sensitisation

Specific effects: Mixture not tested.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Germ cell mutagenicity

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Reproductive toxicity

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

STOT-single exposure

Mixture not tested.

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STOT-repeated exposure

Mixture not tested.

Aspiration hazard

Hydrocarbon content (%): > 10 %

Cinematic viscosity (40°C): < 20,5 mm²/s

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Aquatic toxicity

Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Biodegradable. The statement is derived from the properties of the single components.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

Ozone depletion potential (ODP): This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains.

Product/Packaging disposal

Consult the appropriate local waste disposal expert about waste disposal.

Waste codes/waste designations according to EWC/AVV

16 03 05

Waste code packaging

15 01 10

Waste treatment options

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

SECTION 14: Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

Land transport (ADR/RID)

PAINT RELATED MATERIAL

Sea transport (IMDG)

PAINT RELATED MATERIAL

Air transport (ICAO-TI / IATA-DGR)

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PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 30
Tunnel restriction code : D/E
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / S-E
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Hazard label(s) : 3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

See protective measures under chapter 7 and 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not classified for this transport way.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Authorisations and/or restrictions on use

To follow : REACH, Annex XVII, No. 3

National regulations

Water hazard class (WGK)

Class : 1 Classification according to AwSV

Additional information

Registration status

Ingredients/product listed in the following inventories:

EINECS/ELINCS (Europe)

TSCA (USA)

DSL (Canada)

ENCS (Japan)

AICS (Australia)

NZIoC (New Zealand)

IECSC (China)

KECL (South Korea)

PICCS (Philippines)

TCSI (Taiwan)

Norway

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Indication of changes

08. Occupational exposure limit values · 15. Regulatory information

Abbreviations and acronyms

AGS: Ausschuss für Gefahrstoffe (German Commission on Hazardous Substances)
TRGS: Technical Rules of Hazardous Substances
RCP: Reciprocal calculation-based procedure
VOC: Volatile Organic Compounds
ISO: International Standards Organization
EN: European Standard
LGK: German storage class
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations concerning the International Carriage of Dangerous Goods by Rail)
IMDG-Code: International Maritime Code for Dangerous Goods
GGVSee: German Carriage of Dangerous Goods by Sea Ordinance
GGVSEB: German Carriage of Dangerous Goods b road, rail and inland waterways
ICAO-TI: International Civil Aviation Organization-Technical Instructions
IATA-DGR: International Air Transport Association-Dangerous Goods Regulations
EINECS: European Inventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances
TSCA: Toxic Substances Control Act
ENCS/MITI: Japanese Existing and New Chemical Substances List / Ministry of International Trade and Industry
DSL: Canadian Domestic Substance List
KECL/KECI: Korean Existing Chemicals List / Korea Existing Chemicals Inventory
IECSC: Inventory of Existing Chemical Substances in China
AICS: Australian Inventory of Chemical Substances
PICCS: Philippine Inventory of Chemicals and Chemical Substances
NZIoC: New Zealand Inventory of Chemicals
TCSI: Taiwan`s Chemical Substance Inventory
WGK: German Water pollution classification
AwSV: German ordinance on installations handling substances hazardous to water
BetrSichV: German Ordinance on Industrial Safety and Health
GefStoffV: German Hazardous Substances Ordinance
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent, very Bioaccumulative
CAS: Chemical Abstracts Service
EG/EU: European Union
UN: United Nations
CLP: classification labelling and packaging
TWA: Time weighted Average
STEL: Short term exposure limit

Key literature references and sources for data

- ¹ <http://www.baua.de>
 - ² <http://publikationen.dguv.de>
 - ³ <http://echa.europa.eu/en/candidate-list-table>
- The product is classified and labelled according to EC legislation.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) N° 272/2008 [CLP]:
Physical hazards: Flash point (°C)
Health hazards : Calculation method.
Environmental hazards : Calculation method.

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Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Training advice

Special training for first aid necessary.

Additional information

Please refer to our internet website for more information: <http://www.schwegmannnet.de>

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
