SAFETY DATA SHEET

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

1.1. Product identifier

Trade name
Junckers Pro Tech, all gloss levels
Product no.
522, 525
REACH registration number
Not applicable
Unique formula identifier (UFI)
-

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

Relevant identified uses of the substance or mixture
Coating of wood, indoors
Uses advised against
-
The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address
Junckers Industrier A/S
Vaerftsvej 4
4600 Koege
Denmark
Tel.: +45 7080 3000
Contact person
Kirsten Andersen
E-mail
productsafety@junckers.dk
SDS date
2018-12-06
SDS Version
1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 3; H226
STOT SE 3; H336
Aquatic Chronic 4; H413
See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)

Signal word
Warning

Hazard statement(s)
Flammable liquid and vapour. (H226)
May cause drowsiness or dizziness. (H336)
May cause long lasting harmful effects to aquatic life. (H413)

Precautionary statements

General	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210).
Response	In case of fire: Use alcohol-resistant foam/carbonic acid/powder/water mist/carbon dioxide/dry sand to extinguish. (P370+P378).
Storage	Store in a well-ventilated place. Keep cool. (P403+P235).
Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

2.3. Other hazards
Not applicable

Additional labelling
Repeated exposure may cause skin dryness or cracking. (EUH066)

Additional warnings
Not applicable

VOC (volatile organic compound)
VOC-Max: 470 g/l, MAXIMUM VOC CONTENT (A/i (SB)): 500 g/l.

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
IDENTIFICATION NOS.:	CAS-no: 246538-76-1 EC-no: (918-167-1) REACH-no: 01-2119472146-39-xxxx
CONTENT:	25- <50%
CLP CLASSIFICATION:	Flam. Liq. 3, Asp. Tox. 1, Aquatic Chronic 4 H226, H304, EUH066, H413
NOTE:	S

NAME:	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
IDENTIFICATION NOS.:	CAS-no: 64742-48-9 EC-no: (919-857-5) REACH-no: 01-2119463258-33-xxxx
CONTENT:	15 - <25%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1 H226, H304, H336, EUH066
NOTE:	S

NAME:	Silicon dioxide, amorphous, chemically prepared
IDENTIFICATION NOS.:	CAS-no: 7631-86-9 EC-no: 231-545-4 REACH-no: 01-2119379499-16-xxxx
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	NA

NAME:	Silane, dichlorodimethyl-, reaction products with silicon dioxide
IDENTIFICATION NOS.:	CAS-no: 68611-44-9 EC-no: 271-893-4
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	NA

NAME:	2,6-dimethylheptan-4-one
IDENTIFICATION NOS.:	CAS-no: 108-83-8 EC-no: 203-620-1 REACH-no: 01-2119474441-41-xxxx Index-no: 606-005-00-X
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3 H226, H335
NOTE:	S

NAME:	(2-methoxymethylethoxy)propanol
IDENTIFICATION NOS.:	CAS-no: 34590-94-8 EC-no: 252-104-2 REACH-no: 01-2119450011-60-xxxx
CONTENT:	0.25 - <1%

CLP CLASSIFICATION:	NA
NOTE:	S L
NAME:	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
IDENTIFICATION NOS.:	CAS-no: - EC-no: (918-481-9) REACH-no: 01-2119457273-39-xxxx.
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Asp. Tox. 1 H304, EUH066
NOTE:	S
NAME:	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
IDENTIFICATION NOS.:	CAS-no: 64742-82-1 EC-no: (919-446-0) REACH-no: 01-2119458049-33-xxxx
CONTENT:	0.1 - <0.25%
CLP CLASSIFICATION:	Flam. Liq. 3, Asp. Tox. 1, , STOT SE 3, STOT RE 1, Aquatic Chronic 2 H226, H304, EUH066, H336, H372, H411
NOTE:	S
NAME:	2-methoxy-1-methylethyl acetate
IDENTIFICATION NOS.:	CAS-no: 108-65-6 EC-no: 203-603-9 REACH-no: 01-2119475791-29-xxxx Index-no: 607-195-00-7
CONTENT:	<0.1%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3 H226, H336
NOTE:	S L
NAME:	2-methoxypropyl acetate
IDENTIFICATION NOS.:	CAS-no: 70657-70-4 EC-no: 274-724-2 Index-no: 607-251-00-0
CONTENT:	<0.0015%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3, Repr. 1B H226, H335, H360D
NOTE:	S

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.
S = Organic solvent

Other information

ATEmix(oral) > 2000
N chronic (CAT 4) Sum = Sum(Ci/(M(chronic)i*25)*0.1*10^CATi) = > 1 - 1,356264

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

4.2. Most important symptoms and effects, both acute and delayed

This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms include: headache, dizziness, tingling sensations of skin, difficulty in concentrating, tiredness.

4.3. Indication of any immediate medical attention and special treatment needed

Nothing special

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Halogenated compounds. Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from spilled material. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on “Disposal considerations” in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Storage temperature

Room temperature 18 to 23°C

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

Silica (Silicon dioxide), amorphous
Long-term exposure limit (8-hour TWA reference period): - ppm | 6 (I)/2,4 (R) mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³
Comments: I=Inhalable, R=Respirable

2-methoxy-1-methylethyl acetate
Long-term exposure limit (8-hour TWA reference period): 50 ppm | 274 mg/m³
Short-term exposure limit (15-minute reference period): 100 ppm | 548 mg/m³
Comments: Sk (Sk = Can be absorbed through skin.)

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromat...
Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m³
Short-term exposure limit (15-minute reference period): - ppm | 500 mg/m³

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% ...
Long-term exposure limit (8-hour TWA reference period): - ppm | 800 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

(2-methoxymethylethoxy)propanol
Long-term exposure limit (8-hour TWA reference period): 50 ppm | 308 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³
Comments: Sk (Sk = Can be absorbed through skin.)

2,6-dimethylheptan-4-one
Long-term exposure limit (8-hour TWA reference period): 25 ppm | 148 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Long-term exposure limit (8-hour TWA reference period): - ppm | 1200 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

DNEL / PNEC

DNEL (2-methoxy-1-methylethyl acetate): 153,5 mg/kg bw
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-methoxy-1-methylethyl acetate): 275 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-methoxy-1-methylethyl acetate): 54,8 mg/kg bw
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-methoxy-1-methylethyl acetate): 33 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-methoxy-1-methylethyl acetate): 1,67 mg/kg bw
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2,6-dimethylheptan-4-one): 290 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (2,6-dimethylheptan-4-one): 80 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2,6-dimethylheptan-4-one): 479 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2,6-dimethylheptan-4-one): 145 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population

DNEL (2,6-dimethylheptan-4-one): 28,5 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2,6-dimethylheptan-4-one): 171 mg/kg
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2,6-dimethylheptan-4-one): 7,14 mg/kg
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2,6-dimethylheptan-4-one): 290 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (2,6-dimethylheptan-4-one): 80 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2,6-dimethylheptan-4-one): 479 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2,6-dimethylheptan-4-one): 145 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population

DNEL (2,6-dimethylheptan-4-one): 28,5 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2,6-dimethylheptan-4-one): 171 mg/kg
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2,6-dimethylheptan-4-one): 7,14 mg/kg
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)): 330 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)): 44 mg/kg bw.
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)): 71 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)): 26 mg/kg bw
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)): 26 mg/kg bw
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics): 208 mg/kg bw/dag
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics): 125 mg/kg bw/dag
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics): 185 mg/kg/dag
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics): 871 mg/m3
Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics): 125 mg/kg bw/d
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL ((2-methoxymethylethoxy)propanol): 65 mg/kg/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL ((2-methoxymethylethoxy)propanol): 310 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL ((2-methoxymethylethoxy)propanol): 15 mg/kg/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL ((2-methoxymethylethoxy)propanol): 37,2 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL ((2-methoxymethylethoxy)propanol): 1,67 mg/kg/day
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

PNEC (2-methoxy-1-methylethyl acetate): 0,635 mg/l
Exposure: Freshwater

PNEC (2-methoxy-1-methylethyl acetate): 0,0635 mg/l
Exposure: Marine water

PNEC (2-methoxy-1-methylethyl acetate): 6,35 mg/l
Exposure: Intermittent release

PNEC (2-methoxy-1-methylethyl acetate): 100 mg/l
Exposure: Activated Sludge Plant

PNEC (2-methoxy-1-methylethyl acetate): 3,29 mg/kg
Exposure: Freshwater sediment

PNEC (2-methoxy-1-methylethyl acetate): 0,329 mg/kg
Exposure: Marine water sediment

PNEC (2-methoxy-1-methylethyl acetate): 0,29 mg/kg
Exposure: Soil

PNEC (2,6-dimethylheptan-4-one): 0,03 mg/l
Exposure: Freshwater

PNEC (2,6-dimethylheptan-4-one): 0,003 mg/l
Exposure: Marine water

PNEC (2,6-dimethylheptan-4-one): 0,3 mg/l
Exposure: Intermittent release

PNEC (2,6-dimethylheptan-4-one): 0,46 mg/kg
Exposure: Freshwater sediment

PNEC (2,6-dimethylheptan-4-one): 0,046 mg/kg
Exposure: Marine water sediment

PNEC (2,6-dimethylheptan-4-one): 2,55 mg/l
Exposure: Activated Sludge Plant

PNEC (2,6-dimethylheptan-4-one): 0,0746 mg/kg
Exposure: Soil

PNEC ((2-methoxymethylethoxy)propanol): 19 mg/l
Exposure: Freshwater

PNEC ((2-methoxymethylethoxy)propanol): 1,9 mg/l
Exposure: Marine water

PNEC ((2-methoxymethylethoxy)propanol): 70,2 mg/kg
Exposure: Freshwater sediment

PNEC ((2-methoxymethylethoxy)propanol): 7,02 mg/kg
Exposure: Marine water sediment

PNEC ((2-methoxymethylethoxy)propanol): 190 mg/l
Exposure: Intermittent release

PNEC ((2-methoxymethylethoxy)propanol): 2,74 mg/kg
Exposure: Soil

PNEC ((2-methoxymethylethoxy)propanol): 4168 mg/l
Exposure: Sewage Treatment Plant

8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

In case of insufficient ventilation in the workplace, respiratory protection is required. It is recommended to use an air-supplied respirator. For short-term work, respiratory equipment with gas filter, type A2 is recommended.

Skin protection

At risk of splashing:
Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

Hand protection

Butyl rubber
Breakthrough time: > 60 minutes (Class 3)

Eye protection

At risk of splashing:
Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Tan
Odour	Gasoline-like

Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	>20,5 mm²/s
Density (g/cm³)	0,87-0,89
Phase changes	
Melting point (°C)	No data available.
Boiling point (°C)	160
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.
Data on fire and explosion hazards	
Flash point (°C)	40
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.
Solubility	
Solubility in water	Insoluble
n-octanol/water coefficient	No data available.
9.2. Other information	
Solubility in fat (g/L)	No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
The product is stable under the conditions, noted in the section “Handling and storage”.

10.3. Possibility of hazardous reactions
Nothing special

10.4. Conditions to avoid
Avoid static electricity. Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products
The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance: 2-methoxy-1-methylethyl acetate
Species: Rat
Test: LD50
Route of exposure: Oral
Result: > 5000 mg/kg bw

Substance: Silane, dichlorodimethyl-, reaction products with silicon dioxide
Species: Rat
Test: LC0
Route of exposure: Inhalation
Result: 0,477 mg/l (4 h)

Substance: Silane, dichlorodimethyl-, reaction products with silicon dioxide
Species: Rat
Test: LD50
Route of exposure: Oral
Result: > 5000 mg/kg

Substance: Silicon dioxide, amorphous, chemically prepared

Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: >5000 mg/kg

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Rat
Test: LC0
Route of exposure: Inhalation
Result: 0,139 mg/l (4 h)

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Rat
Test: LD50
Route of exposure: Oral
Result: >5000 mg/kg

Substance: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Species: Rabbit
Test: LC50
Route of exposure: Inhalation
Result: > 4,95 mg/l (4 h)

Substance: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: > 5000 mg/kg bw

Substance: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Species: Rat
Test: LD50
Route of exposure: Dermal
Result: >5000 mg/kg

Substance: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 8500 mg/m3 (4 h)

Substance: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Species: Rat
Test: LD50
Route of exposure: Oral
Result: > 5000 mg/kg bw

Substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Species: Rabbit
Test: NOAEL
Route of exposure: Dermal
Result: 5000 mg/kg

Substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Species: Rat
Test: NOAEL
Route of exposure: Oral
Result: 5000 mg/l

Substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Species: Rat
Test: NOAEL
Route of exposure: Inhalation
Result: 5000 mg/kg (8 h)

Skin corrosion/irritation

Data on substance: 2-methoxy-1-methylethyl acetate
Test: OECD Guideline 404
Organism: Rabbit
Result: No skin irritation

Data on substance: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Test: OECD Guideline 404
Organism: Rabbit
Result: no Skin Irritation

Data on substance: Silicon dioxide, amorphous, chemically prepared
Test: analogous OECD-method
Organism: Rabbit
Result: no irritation

Data on substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Test: OECD Guideline 404
Organism: Rabbit
Result: Mild Skin Irritation

Data on substance: (2-methoxymethylethoxy)propanol
Test: OECD Guideline 404
Organism: Rabbit
Result: No irritation

Serious eye damage/irritation

Data on substance: 2-methoxy-1-methylethyl acetate
Test: OECD TG 405
Organism: Rabbit
Result: No eye irritation

Data on substance: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Test: OECD TG 405
Organism: Rabbit
Result: No Eye Irritation

Data on substance: Silicon dioxide, amorphous, chemically prepared
Test: analogous OECD-method
Organism: Rabbit
Result: no irritation

Data on substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Test: OECD TG 405
Organism: Rabbit
Result: No Eye Irritation

Respiratory or skin sensitisation

Data on substance: 2-methoxy-1-methylethyl acetate
Test: OECD Guideline 406
Organism: Guinea pig
Result: No skin sensibilization

Germ cell mutagenicity

No data available.

Carcinogenicity

Data on substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Test: OECD Guideline 453
Organism: Rat
Result: No carcinogenicity via inhallation

Reproductive toxicity

Data on substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Test: OECD 416
Organism: Rabbit
Result: NOAEL (Parental toksicitet) 20000 mg/m3 (inhallation)

Data on substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Test: OECD TG 414
Organism: Rat

Result: NOAEL (Maternel toksicitet) 23900 mg/m3 (inhallation)

STOT-single exposure

May cause drowsiness or dizziness.

Data on substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Organism: Human
Target organ: Central nervous system
Result: vapours may cause drowsiness and dizziness

STOT-repeated exposure

Data on substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Test: OECD 408
Organism: Rat
Result: NOAEL: 1402 mg/m3

Data on substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Test: OECD 408
Organism: Mouse
Result: LOAEL: 9869 mg/m3

Aspiration hazard

No data available.

Long term effects

Nothing special

SECTION 12: Ecological information

12.1. Toxicity

Substance: 2-methoxy-1-methylethyl acetate
Species: Fish
Test: LC50
Duration: 96 h
Result: 100-180 mg/l

Substance: 2-methoxy-1-methylethyl acetate
Species: Algae
Test: EC50
Duration: 96 h
Result: >1000 mg/l

Substance: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Species: Fish
Test: LC50
Duration: 96 h
Result: 10-30 mg/l

Substance: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Species: Daphnia
Test: EC50
Duration: 48 h
Result: 10-22 mg/l

Substance: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Species: Algae
Test: ErC50
Duration: 72 h
Result: 4,1 mg/l

Substance: (2-methoxymethylethoxy)propanol
Species: Fish
Test: LC50
Duration: 96 h
Result: 10000 mg/l

Substance: (2-methoxymethylethoxy)propanol
Species: Daphnia
Test: EC50
Duration: 48 h
Result: 1919 mg/l

Substance: (2-methoxymethylethoxy)propanol
Species: Daphnia
Test: NOEC
Duration: 22 d
Result: >= 0,5 mg/l

Substance: (2-methoxymethylethoxy)propanol
Species: Algae
Test: EC50
Duration: 72 h
Result: > 969 mg/l

Substance: Silane, dichlorodimethyl-, reaction products with silicon dioxide
Species: Fish
Test: LC50
Duration: 96h
Result: > 10000 mg/l

Substance: Silane, dichlorodimethyl-, reaction products with silicon dioxide
Species: Daphnia
Test: EC50
Duration: 24h
Result: > 10000 mg/l

Substance: Silane, dichlorodimethyl-, reaction products with silicon dioxide
Species: Algae
Test: IC50
Duration: 72 h
Result: > 10000 mg/l

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Fish
Test: LC50
Duration: 96 h
Result: >10000 mg/l

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Daphnia
Test: EC50
Duration: 24 h
Result: >1000 mg/l

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Algae
Test: EC50
Duration: 72 h
Result: >10000 mg/l

Substance: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Species: Fish
Test: LC50
Duration: 96 h
Result: >1000 mg/l

Substance: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Species: Daphnia
Test: EC50
Duration: 48 h
Result: >1000 mg/l

Substance: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Species: Algae
Test: EC50
Duration: 72 h
Result: >1000 mg/l

Substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Species: Fish
Test: LC50
Duration: 96 h
Result: >1000 mg/l

Substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Species: Algae
Test: ErC50
Duration: 72 h
Result: >1000 mg/l

Substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Species: Daphnia
Test: LC50
Duration: 48 h
Result: >1000 mg/l

Substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Species: Bacteria
Test: EC50
Duration: 5 h
Result: >2 ml/l

Substance: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Species: Algae
Test: NOEC
Duration: 72 h
Result: 1000 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
2-methoxy-1-methylethyl acetat...	Yes	Manometric Respirometry Test	>60 %
Hydrocarbons, C9-C12, n-alkane...	Yes	Manometric Respirometry Test	>60%
(2-methoxymethylethoxy)propano...	Yes	Manometric Respirometry Test	73%
Hydrocarbons, C9-C11, n-alkane...	Yes	Manometric Respirometry Test	80 %
Hydrocarbons, C11-C12, isoalka...	No	Manometric Respirometry Test	31,3%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
2-methoxy-1-methylethyl acetat...	No	1,2	No data available
Hydrocarbons, C10-C13, n-alkan...	No	No data available	No data available
(2-methoxymethylethoxy)propano...	No	0,0043	No data available
Silane, dichlorodimethyl-, rea...	No	No data available	No data available
Silicon dioxide, amorphous, ch...	No	No data available	No data available
Hydrocarbons, C9-C11, n-alkane...	Yes	5,9	No data available
Hydrocarbons, C11-C12, isoalka...	Yes	4,6	100

12.4. Mobility in soil

2-methoxy-1-methylethyl acetat...: Log Koc= 1,02868, Calculated from LogPow (High mobility potential.).
(2-methoxymethylethoxy)propano...: Log Koc= 0,08180517, Calculated from LogPow (High mobility potential.).
Hydrocarbons, C9-C11, n-alkane...: Log Koc= 4,75061, Calculated from LogPow (Low mobility potential.).
Hydrocarbons, C11-C12, isoalka...: Log Koc= 3,72114, Calculated from LogPow (Moderate mobility potential.).

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,
This product contains substances with the potential of bioaccumulation resulting in the risk of accumulation in the food chain. Bioaccumulative substances are concentrated in adipose tissue and are not easily secreted.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code

08 01 11	waste paint and varnish containing organic solvents or other dangerous substances

Specific labelling

Not applicable

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

14.1. UN number	1263
14.2. UN proper shipping name	PAINT
14.3. Transport hazard class(es)	3
14.4. Packing group	III
Notes	-
Tunnel restriction code	(D/E)

IMDG

UN-no.	1263
Proper Shipping Name	PAINT
Class	3
PG*	III
EmS	F-E, S-E
MP**	No
Hazardous constituent	-

IATA/ICAO

UN-no.	1263
Proper Shipping Name	PAINT
Class	3
PG*	III

14.5. Environmental hazards

-

14.6. Special precautions for user

-

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

No data available

(*) Packing group
(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

-

Additional information

Not applicable

Seveso
Seveso III Part 1: P5c

Sources
Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.
Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.
The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).
EC regulation 1907/2006 (REACH).
The Control of Major Accident Hazards (COMAH) Regulations 2015.

15.2. Chemical safety assessment
No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3
H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H372 - Causes damage to organs through prolonged or repeated exposure¤.
H411 - Toxic to aquatic life with long lasting effects.
H413 - May cause long lasting harmful effects to aquatic life.
EUH066 - Repeated exposure may cause skin dryness or cracking.
H360Df - May damage the unborn child. Suspected of damaging fertility.

The full text of identified uses as mentioned in section 1
-

Additional label elements
Not applicable

Other
In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:
The classification of the mixture in regard of physical hazards has been based on experimental data.

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by
shcw/chymeia
Date of last essential change
(First cipher in SDS version)
-
Date of last minor change
(Last cipher in SDS version)
-