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

Trade name :	Solvent 405 colourless		
Revision date :	11.11.2024	**Version (Revision) :**	13.1.1 (13.1.0)
Print date :	11.11.2024		

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

1.1 Product identifier

Solvent 405
colourless (15097000000038)
Unique Formula Identifier (UFI): KG3V-4AJ6-040R-PTTN

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

Relevant identified uses

Industrial marking ink

1.3 Details of the supplier of the safety data sheet

Supplier

Stefan Kupietz GmbH & Co. KG
Chemische Fabrik

Street : August-Wilhelm-Kühnholz-Str. 9

Postal code/City : 26135 Oldenburg

Telephone : +49(0)441/20 69 50

Telefax : +49(0)441 /20 69 520

Information contact : E-Mail: info@kupietz.de

1.4 Emergency telephone number

Poison emergency centre +49-551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

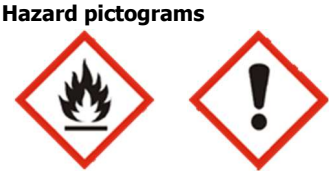
Classification according to Regulation (EC) No 1272/2008 [CLP]

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.

2.2 Label elements

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

Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

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

Hazard statements

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P312	Call a POISON CENTER/doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

(2-METHOXYMETHYLETHOXY)PROPANOL ; REACH Registration No. : 01-2119450011-60-xxxx ; EC No. : 252-104-2; CAS No. : 34590-94-8

Weight fraction : < 75 %

Classification 1272/2008 [CLP] : Substance with a community workplace exposure limit

1-METHOXY-2-PROPANOL ; REACH Registration No. : 01-2119457435-35-xxxx ; EC No. : 203-539-1; CAS No. : 107-98-2

Weight fraction : < 30 %

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

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Immediately remove all contaminated clothing.

Following inhalation

Provide fresh air.

In case of skin contact

Wash away with soap and water and rinse.

After eye contact

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

Following ingestion

Drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam , Carbon dioxide (CO2) , Extinguishing powder or Water spray jet .

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

None

5.4 Additional information

Cool endangered containers with water in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Remove mechanically, take-up residues with absorbing material.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Normal precautions taken when handling chemicals should be observed. Only use in locations with adequate suction ventilation.

Protective measures

Measures to prevent fire

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Do not leave vessels open, earth storage containers.

Hints on joint storage

Store the foodstuffs separately. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Storage class (TRGS 510) : 3

Further information on storage conditions

Store containers tightly closed in a cool well ventilated place.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

(2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8

Limit value type (country of origin) :	TRGS 900 (D)
Limit value :	50 ppm / 310 mg/m³
Peak limitation :	1(I)
Version :	12.06.2023
Limit value type (country of origin) :	TWA (EC)
Limit value :	50 ppm / 308 mg/m³
Remark :	Skin

Version : 09.03.2022

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

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 370 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 12.06.2023

Limit value type (country of origin) : STEL (EC)
Limit value : 150 ppm / 568 mg/m³
Remark : Skin
Version : 09.03.2022

Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 375 mg/m³
Remark : Skin
Version : 09.03.2022

Biological limit values

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

Limit value type (country of origin) : TRGS 903 (D)
Parameter : 1-methoxypropan-2-ol / Urine (U) / End of exposure or end of shift
Limit value : 15 mg/l
Version : 12.06.2023

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Use tightly fitting safety glasses.

Skin protection

Hand protection

Use protective butyl rubber gloves (0,5 mm). Permeation time of glove material: level >= 240 min (4h) EN374

General information

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid
Colour : transparent
Odour : characteristic

Safety characteristics

Physical state :			Liquid		
Freezing point :			No data available		
Initial boiling point and boiling range :	(1013 hPa)	~	137	°C	
Decomposition temperature :		>	200	°C	
Flash point :		~	49	°C	Brookfield
Auto-ignition temperature :			No data available		
Lower explosion limit :			No data available		
Upper explosion limit :			No data available		
Vapour pressure :	(50 °C)	<	1100	hPa	

Density :	(20 °C)	~	0,946	g/cm³	
Solvent separation test :	(20 °C)	<	3	%	
Water solubility :	(20 °C)		No data available		
pH :		~	7,6		
log P O/W :			No data available		
Flow time :	(20 °C)	~	10	s	DIN-cup 4 mm
Odour threshold :			No data available		
Relative vapour density :	(20 °C)		No data available		
Vapourisation rate :			No data available		
Aerosols :	No data available.				
Oxidising liquids :	No data available.				
Explosive properties :	No data available.				

9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

None, if handled according to order.

10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. In connection with inorganic and organic acids, acid chlorides violent reactions can take place and CO2 released. Formation of hydrogen by acids, lyes, moisture possible.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Acute oral toxicity

Parameter :	LD50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	5660 mg/kg

Acute dermal toxicity

Parameter :	LD50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	9999,99 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)

Exposure route : Inhalation
Species : Rat
Effective dose : 27,596 mg/l
Exposure time : 6 h

Practical experience/human evidence

Slight narcotic effect. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea.

Corrosion

Skin corrosion/irritation

Parameter : Skin corrosion/irritation (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Rabbit
Result : Non-irritant

Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Rabbit
Result : Very minor single cell staining (0,5)

Respiratory or skin sensitisation

Skin sensitisation

Parameter : Skin sensitisation (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Guinea pig
Result : Not sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Parameter : Carcinogenicity (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route : Carcinogenicity
Result : Negative.

Germ cell mutagenicity

In vitro mutagenicity

Parameter : In vitro mutagenicity (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route : In vitro mutagenicity
Result : Negative.

Genotoxicity

Parameter : Genotoxicity (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route : Genotoxicity
Result : Negative.

Reproductive toxicity

Adverse effects on developmental toxicity

Parameter : One generation reproduction toxicity test (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route : One generation reproduction toxicity test
Result : Negative.

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Leuciscus idus (golden orfe)

Effective dose :	6812 mg/l
Exposure time :	96 h
Evaluation :	Harmless to fish up to the concentration tested.
Parameter :	LC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species :	Pimephales promelas (fathead minnow)
Effective dose :	20800 mg/l
Exposure time :	96 h
Evaluation :	Harmless to fish up to the concentration tested.
Parameter :	LC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	=> 1000 mg/l
Exposure time :	96 h
Evaluation :	Harmless to fish up to the concentration tested.

Acute (short-term) toxicity to crustacea

Parameter :	EC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species :	Daphnia magna (Big water flea)
Effective dose :	23300 mg/l
Exposure time :	48 h
Evaluation :	Harmless to daphnia up to the tested concentration.

Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	ErC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species :	Pseudokirchneriella subcapitata
Effective dose :	> 1000 mg/l
Exposure time :	7 day(s)
Evaluation :	Harmless to algae up to the concentration tested.

Toxicity to microorganisms

Parameter :	EC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species :	Bacteria toxicity
Effective dose :	1000 mg/l
Exposure time :	3 h
Evaluation :	Bacteria toxicity

12.2 Persistence and degradability

In case of appropriate conduction into adapted biological purification plants no disturbances have to be expected.

Biodegradation

Parameter :	Biodegradation (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Inoculum :	Degree of elimination
Degradation rate :	96 %
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301E

12.3 Bioaccumulative potential

Parameter :	Bioconcentration factor (BCF) (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2) Bioconcentration factor (BCF)
Value :	< 100

No indication of bioaccumulation potential.

12.4 Mobility in soil

Very high mobility in soil with a negligible tendency to leave the sediment.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

12.8 Additional ecotoxicological information

Do not empty into waters or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation.

Directive 2008/98/EC (Waste Framework Directive)

After intended use

Waste codes/waste designations according to EWC/AVV

- 080111

Additional information

Contaminated packaging should be residue-free emptying. They can then be recycled after appropriate cleaning (Waste code 080112 contains no organic solvents). Contaminated packaging should be disposed of like the product. (Waste code 150110)

SECTION 14: Transport information

14.1 UN number or ID 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)
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
Special Provisions :	LQ 5 l · E 1
Hazard label(s) :	3

Sea transport (IMDG)

Class(es) :	3
EmS-No. :	F-E / S-E
Special Provisions :	LQ 5 l · E 1
Hazard label(s) :	3

Air transport (ICAO-TI / IATA-DGR)

Class(es) :	3
Special Provisions :	E 1
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
None

14.7 Maritime transport in bulk according to IMO instruments
No transport as bulk according to IBC Code.

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
Restrictions on use
Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)
Use restriction according to REACH annex XVII, no. : 3, 40
National regulations
Water hazard class
Classification according to AwSV - Class : 1 (Slightly hazardous to water)

15.2 Chemical Safety Assessment
No information available.

SECTION 16: Other information

16.1 Indication of changes
02. Label elements · 03. Hazardous ingredients

16.2 Abbreviations and acronyms
None

16.3 Key literature references and sources for data
None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
See SECTION 2.1 (classification).

16.5 Relevant H- and EUH-phrases (Number and full text)
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.

16.6 Training advice
None

16.7 Additional information
None

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.