

Safety Data Sheet

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

Trade name : MOLOTOW COVERSALL Blsck
Revision date : 02.04.2019 **Version (Revision) :** 10.0.0 (9.0.1)
Print date : 02.04.2019

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

1.1 Product identifier

MOLOTOW Coversall (Items : 691.760, 360.000, 460.000, 660.000, 760.000)

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

Feuerstein GmbH MOLOTOW Distribution

Street : Willy-Brandt-Straße 9/2

Postal code/city : 77933 Lahr/Schwarzwald

Telephone : +49(0)7821/92 22 29 0

Telefax : +49(0)7821/92 22 29 99

Information contact : E-Mail: info@molotow.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. 2 ; H225 - Flammable liquids : Category 2 ; Highly 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

Danger

Hazard components for labelling

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

Hazard statements

H225 Highly 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.

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P405 Store locked up.
2.3 Other hazards
None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

ETHANOL ; REACH registration No. : 01-2119457610-43-xxxx ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction : < 45 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

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

Weight fraction : < 25 %

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

Additional information

Full text of H- and EUH-phrases: 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.

After 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.

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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

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 (D)
 Limit value : 200 ppm / 380 mg/m³
 Peak limitation : 4(II)
 Remark : Y
 Version : 07.06.2018

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 : 07.06.2018

Limit value type (country of origin) : STEL (EC)

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Limit value : 150 ppm / 568 mg/m³
 Remark : H
 Version : 31.01.2018
 Limit value type (country of origin) : TWA (EC)
 Limit value : 100 ppm / 375 mg/m³
 Remark : H
 Version : 31.01.2018

Biological limit values

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

Limit value type (country of origin) : TRGS 903 (D)

Parameter : 1-methoxy-2-propanol / Urine (U) / End of exposure or end of shift

Limit value : 15 mg/l

Version : 07.06.2018

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

Respiratory protection

Suitable respiratory protection apparatus

Respiratory protection necessary at: aerosol or mist formation. Half-face mask (DIN EN 140) Filtering device (full mask or mouthpiece) with filter: A

General health and safety measures

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 : black

Odour : characteristic

Safety relevant basis data

Physical state : Liquid

Freezing point : No data available

Initial boiling point and boiling range : ~ 75 °C (1013 hPa)

Decomposition temperature : > 200 °C

Flash point : ~ 17 °C Abel-Pensky

Ignition temperature : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapour pressure : < 1100 hPa (50 °C)

Density : ~ 0,92 g/cm³ (20 °C)

Solvent separation test : < 3 % (20 °C)

Water solubility : No data available (20 °C)

pH : ~ 4

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log P O/W :		No data available
Flow time :	~	12 s DIN-cup 4 mm (20 °C)
Odour threshold :		No data available
Relative vapour density :		No data available (20 °C)
Vapourisation rate :		No data available
Flammable 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 toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	5660 mg/kg
Parameter :	LD50 (C.I. SOLVENT BLUE 70 ; CAS No. : 94277-77-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 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

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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.

Irritant and corrosive effects

Primary irritation to the skin

Parameter : Primary irritation to the skin (ETHANOL ; CAS No. : 64-17-5)
 Result : Not an irritant
 Parameter : Primary irritation to the skin (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
 Species : Rabbit
 Result : Not an irritant

Irritation to eyes

Parameter : Irritation to eyes (ETHANOL ; CAS No. : 64-17-5)
 Result : Strongly irritant
 Parameter : Irritation to eyes (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
 Species : Rabbit
 Result : Very minor single cell staining (0,5)

Sensitisation

In case of skin contact

Parameter : Skin sensitisation (ETHANOL ; CAS No. : 64-17-5)
 Result : Not sensitising.
 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 (ETHANOL ; CAS No. : 64-17-5)
 Exposure route : Carcinogenicity
 Test result : Negative.
 Parameter : Carcinogenicity (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
 Exposure route : Carcinogenicity
 Test result : Negative.

Germ cell mutagenicity

In vitro mutagenicity

Parameter : In vitro mutagenicity (ETHANOL ; CAS No. : 64-17-5)
 Exposure route : In vitro mutagenicity
 Test result : Negative.
 Parameter : In vitro mutagenicity (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
 Exposure route : In vitro mutagenicity
 Test result : Negative.

Genotoxicity

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

Reproductive toxicity

Developmental toxicity/teratogenicity

One generation reproduction toxicity test

Parameter : One generation reproduction toxicity test (ETHANOL ; CAS No. : 64-17-5)
 Exposure route : One generation reproduction toxicity test
 Test result : Negative.
 Parameter : One generation reproduction toxicity test (1-METHOXY-2-PROPANOL ; CAS No. : 107-

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Exposure route : 98-2)
 Test result : One generation reproduction toxicity test
 Negative.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)
 Species : Acute (short-term) fish toxicity
 Effective dose : 11000 mg/l
 Exposure time : 96 h
 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) daphnia toxicity

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
 Species : Daphnia magna (Big water flea)
 Effective dose : 9950 mg/l
 Exposure time : 48 h
 Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)
 Species : Daphnia magna (Big water flea)
 Effective dose : 9280 mg/l
 Exposure time : 48 h
 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) algae toxicity

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
 Species : Chlorella vulgaris
 Effective dose : 275 mg/l
 Exposure time : 3 h
 Evaluation : Harmless to algae up to the concentration tested.
 Method : OECD 201
 Parameter : EC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
 Species : Pseudokirchneriella subcapitata
 Effective dose : > 1000 mg/l
 Exposure time : 7 day(s)

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Evaluation : Harmless to algae up to the concentration tested.

Chronic (long-term) algae toxicity

Parameter : EC10 (ETHANOL ; CAS No. : 64-17-5)
 Species : Chlorella vulgaris
 Effective dose : 11,5 mg/l
 Exposure time : 3 h
 Evaluation : Chronic (long-term) algae toxicity
 Method : OECD 201

Bacteria toxicity

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
 Species : Bacteria toxicity
 Effective dose : 5800 mg/l
 Exposure time : 4 h
 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 (ETHANOL ; CAS No. : 64-17-5)
 Inoculum : Degree of elimination
 Degradation rate : 84 %
 Test duration : 20 h
 Evaluation : Readily biodegradable (according to OECD criteria).
 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 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Do not empty into waters or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

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- 080111

Waste treatment options

Appropriate disposal / Package

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

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.) : 33
Tunnel restriction code : D/E
Special provisions : 640D · LQ 5 I · E 2
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / ~~S-E~~
Special provisions : LQ 5 I · E 2
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 2
Hazard label(s) : 3

14.4 Packing group

II

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

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

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Use restriction according to REACH annex XVII, no. : 3, 40

National regulations**Water hazard class (WGK)**

Classification according to AwSV - Class : 2 (Significant hazardous to water)

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information**16.1 Indication of changes**

08. Occupational exposure limit values · 15. Restrictions on use · 15. Water hazard class (WGK)

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)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
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.