

according to 2001/58 EC

3002912

Reviewed on: 30/06/2021

Printing date: 30/06/2021

01 Identification of the hazardous chemical and of the supplier

- **Product identifier**

- *Trade name:*
MOTIVO KLARLACK 2080
- Article number / Safety Data Sheet:
258000

- **Details of the supplier of the safety data sheet**

- * *Manufacturer/Supplier:*
Teknos AG
Industriestrasse 7
LI-9487 Gamprin-Bendern
T +423 375 94 00
F +423 375 94 99
- *Further information obtainable from:*
Product safety department. e-mail address: li-sdb@teknos.com
- * *Emergency telephone number:*
Swiss Toxicological Information Centre, CH-8032 Zürich Emergency telephone: +41 (0)44 251 51 51 (International)


02 Hazards identification

- *Classification of the substance or mixture*
Void
- *Label elements*
- GHS label elements
- Hazard pictograms
Void
- Signal word
Void
- Hazard-determining components of labelling:
2-butoxyethanol
- Hazard statements
Void

03 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- *Description:*
Mixture of substances listed below with nonhazardous additions.

- *Dangerous components:*

CAS Number		%
34590-94-8	(2-methoxymethylethoxy)propanol EC number: 252-104-2	0,00- 0,50
111-76-2	2-butoxyethanol EC number: 203-905-0  Acute Tox. 4 - H302, Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	1,00- 5,00

MAL

(continued on page 2)

according to 2001/58 EC

3002912

Reviewed on: 30/06/2021

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PRODUCT : MOTIVO KLARLACK 2080

(continued of page 1)

04 First aid measures

- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
- **After swallowing:**
Do not induce vomiting; call for medical help immediately.

05 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

06 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

07 Handling and storage

- **Handling:**
- **Precautions for safe handling**
No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**
No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Not required.
- **Further information about storage conditions:**
Protect from frost.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)**
No further relevant information available.

MAL

(continued on page 3)

according to 2001/58 EC

3002912

Reviewed on: 30/06/2021

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PRODUCT : MOTIVO KLARLACK 2080*(continued of page 2)***08 Exposure controls/personal protection**

- **Ingredients with limit values that require monitoring at the workplace:**

34590-94-8 (2-methoxymethylethoxy)propanol

PEL

Long-term value	606	mg/m3
	100	ppm

(kulit)

111-76-2 2-butoxyethanol

PEL

Long-term value	96.7	mg/m3
	20	ppm

(kulit)

- **Additional information:**
The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Do not eat or drink while working.
Be sure to clean skin thoroughly after work and before breaks.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Impervious gloves
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

09 Physical and chemical properties**Appearance****Appearance:**

Form:	Liquid
Colour:	According to product specifica
Odour:	Characteristic Characteristic
Odour threshold:	Not determined.

Change in condition

Melting point/Melting range:	0 °C
Boiling point/Boiling range:	100 °C

Flash point: Not applicable.**Flammability (solid, gaseous):** Not applicable.**Ignition temperature:** Undetermined.**Decomposition temperature:** Not determined.**Self-igniting:** Not determined.**Danger of explosion:** Not determined.**Explosion limits:****Lower:** Not determined.*(continued on page 4)*

according to 2001/58 EC

3002912

Reviewed on: 30/06/2021

Printing date: 30/06/2021

PRODUCT : MOTIVO KLARLACK 2080*(continued of page 3)*

Upper:	Not determined.		
Vapour pressure:	at 20 °C	23,0000 mbar	
Density:	1,0300 g/cm ³		
Solubility in / Miscibility with water:	Not determined.		
Viscosity:	Not determined.		
.	at 20 °C	34 -	37 s DIN 4 mm
Other information	No further relevant information available.		

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Incompatible materials:**
No further relevant information available.
- **Hazardous decomposition products:**
No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
64742-95-6 Solvent naphtha (petroleum), light arom.
Oral, LD50: >6800 mg/kg (rat) Dermal, LD50: >3400 mg/kg (Rabbit) Inhalative, LC50/4h: >10,2 mg/l (rat) Oral, LD50: 8000 mg/kg (rat) Oral, LD50: 2000 mg/kg (rat) Dermal, LD50: 1370 mg/kg (Rabbit) Inhalative, LC50/4h: 3,25 mg/l (mouse) Oral, LD50: 10000 mg/kg (rat) Oral, LD50: 5660 mg/kg (rat) Dermal, LD50: 4000 mg/kg (Rabbit) Oral, LD50: 5135 mg/kg (rat) Dermal, LD50: >19000 mg/kg (Rabbit) Oral, LD50: 305 mg/kg (rat) Oral, LD50: 1746 mg/kg (rat) Oral, LD50: 1414 mg/kg (guinea Pig) Dermal, LD50: 2000 mg/kg (rat) Dermal, LD50: 1000 mg/kg (Rabbit) Dermal, LD50: 2000 mg/kg (guinea Pig) Oral, LD50: 5500 mg/kg (rat) Dermal, LD50: 8500 mg/kg (Rabbit)
- 102-71-6 2,2',2''-nitrilotriethanol**
- 108-01-0 2-dimethylaminoethanol**
- 7631-86-9 silicon dioxide, chemically prepared**
- 112-34-5 2-(2-butoxyethoxy)ethanol**
- 34590-94-8 (2-methoxymethylethoxy)propanol**
- 52-51-7 bronopol (INN)**
- 111-76-2 2-butoxyethanol**
- 111-90-0 2-(2-ethoxyethoxy)ethanol**
- **Primary irritant effect:**
- on the skin:
No irritant effect.
- on the eye:
No irritating effect.
- **Sensitization:**
No sensitising effects known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

12 Ecological information

- Aquatic toxicity:
No further relevant information available.
- **Persistence and degradability**
No further relevant information available.
- **Behaviour in environmental systems:**

(continued on page 5)

according to 2001/58 EC

3002912

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Printing date: 30/06/2021

PRODUCT : MOTIVO KLARLACK 2080

(continued of page 4)

- *Bioaccumulative potential*
No further relevant information available.
- **Additional ecological information:**
- *General notes:*
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

13 Disposal considerations

- **Uncleaned packaging:**
- *Recommendation:*
Disposal must be made according to official regulations.
- *Recommended cleansing agents:*
Water, if necessary together with cleansing agents.

14 Transport information

- **UN-Number**
- ADR Void
- IMDG Void
- IATA Void
- **UN proper shipping name**
- ADR Void
- IMDG Void
- IATA Void
- **Transport hazard class(es)**
- ADR
- Class Void
- IMDG
- Class Void
- IATA
- Class Void
- **Packing group**
- ADR Void
- IMDG Void
- IATA Void
- **Environmental hazards:**
Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.
- **Transport/Additional information:**
Not applicable.

15 Regulatory information

- **National regulations:**
- *Classification according to VbF:*
-
- *Technical instructions (air):*
- **Class Share in %**
- I 2,01
- I 0,18

(continued on page 6)

according to 2001/58 EC

3002912

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Printing date: 30/06/2021

PRODUCT : MOTIVO KLARLACK 2080

(continued of page 5)

- **Waterhazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

- **Department issuing MSDS:**

Environment protection department.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- * *Data compared to the previous version altered.*