

MATERIAL SAFETY DATA SHEET

according to 2001/58 EC

3002511

Reviewed on: 05.06.2019

Printing date: 05.06.2019

01 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name:**
MOTIVO COLORATO 2070
- **Article number / Safety Data Sheet:**
257500
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Teknos Feyco AG
Industriestrasse 3
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
Emergency telephone: +41 (0)44 251 51 51

02 Hazard identification

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

03 Composition and information of the ingredients of the hazardous chemical

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

- **Dangerous components:**

CAS Number		%
111-76-2	2-butoxyethanol EC number: 203-905-0 Record number 01-2119475108-36 ⚠ Acute Tox. 4 - H302, Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	1,00- 5,00
112-34-5	2-(2-butoxyethoxy)ethanol EC number: 203-961-6 Record number 01-2119475104-44 ⚠ Eye Irrit. 2 - H319	1,00- 5,00
* 34590-94-8	Dipropylene glycol monomethyl ether EC number: 252-104-2 Record number 01-2119450011-60	0,00- 0,50
*		
*		

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*	13463-67-7	titanium dioxide	15,00- 25,00
*		EC number: 236-675-5	
*		Record number 01-2119489379-17	

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 Fire-fighting 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.

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Protect from heat and direct sunlight.

- **Specific end use(s)**

No further relevant information available.

08 Exposure controls and personal protection

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

111-76-2

2-butoxyethanol

PEL

Long-term value**96.7****mg/m3****20****ppm****(kulit)*** **34590-94-8****Dipropylene glycol monomethyl ether**

*

PEL

Long-term value**606****mg/m3****100****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. Use suitable respiratory protective device in case of insufficient ventilation.

- **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/freezing point: 0 °C

* **Initial boiling point and boiling range:** Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Ignition temperature: Undetermined.

Decomposition temperature: Not determined.

Auto-ignition temperature: Not determined.

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Explosive properties:	Not determined.		
Explosion limits:			
Lower:	Not determined.		
Upper:	Not determined.		
Vapour pressure:	at 20 °C	23,0000 mbar	
Density:	1,2000 g/cm3		
Solubility in / Miscibility with water:	Not determined.		
Viscosity:	Not determined.		
	at 20 °C	35 -	55 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:**
- * **108-01-0 2-dimethylaminoethanol**
Oral, LD50: 2000 mg/kg (rat)
Dermal, LD50: 1370 mg/kg (Rabbit)
Inhalative, LC50/4h: 3,25 mg/l (mouse)
- * **111-76-2 2-butoxyethanol**
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)
- * **112-34-5 2-(2-butoxyethoxy)ethanol**
Oral, LD50: 5660 mg/kg (rat)
Dermal, LD50: 4000 mg/kg (Rabbit)
- * **50-00-0 formaldehyde**
Oral, LD50: >200 mg/kg (rat)
- * **7631-86-9 silicon dioxide, chemically prepared**
Oral, LD50: 10000 mg/kg (rat)
- * **34590-94-8 Dipropylene glycol monomethyl ether**
Oral, LD50: 5135 mg/kg (rat)
Dermal, LD50: >19000 mg/kg (Rabbit)
- * **13463-67-7 titanium dioxide**
Oral, LD50: >20000 mg/kg (rat)
Dermal, LD50: >10000 mg/kg (Rabbit)
Inhalative, LC50/4h: >6,82 mg/l (rat)
- **Primary irritant effect:**
- Skin corrosion/irritation
No irritant effect.
- Serious eye damage/irritation
No irritating effect.
- **Respiratory or skin sensitisation**
No sensitising effects known.
- **Additional toxicological information:**

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15 Regulatory information

- **National regulations:**
- **Classification according to VbF:**
B
- **Technical instructions (air):**
- * • **Class Share in %**
- * I 4,01
- **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 if 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.*