	Product Name	RXSOL-19-1571-210
	Product Type	N-Butanol
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Company Details:

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Chemical Name

CAS Number

EC Number

Index number

Butan-1-ol

71-36-3

200-751-6

603-004-00-6

Hazard description:
Information concerning particular hazards for human and environment:
R 10 Flammable.
R 22 Harmful if swallowed.
R 37/38 Irritating to respiratory system and skin.
R 41 Risk of serious damage to eyes.
R 67 Vapours may cause drowsiness and dizziness.
General information Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours
after the accident.
After inhalation
In case of unconsciousness place patient stably in side position for transportation.
After skin contact
Immediately week with water and coop and rings therewelly
Immediately wash with water and soap and rinse thoroughly.
After eye contact
, were eye contact
Rinse opened eye for several minutes under running water. Then consult a doctor.
3 m
After swallowing
Call for a doctor immediately.

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet
Protective equipment: No special measures required. Person-related safety precautions: Wear protective equipment. Keep unprotected persons away. Measures for environmental protection: Do not allow to enter sewers/ surface or ground water. Measures for cleaning/collecting: Dilute with plenty of water. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
Handling:
Information for safe handling: No special requirement
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.
Additional information about design of technical facilities: No further data; see item 7.
Ingredients with limit values that require monitoring at the workplace: 71-36-3 butan-1-o
PEL (USA)
REL (USA)

TLV (USA)	
WEL (Great Britain)	
WEE (Groat Britain)	
300 mg/m³, 100 ppm	
Short-term value: C 150 mg/m³, C 50 ppm	
Skin	
61 mg/m³, 20 ppm	
Short-term value: 154 mg/m³, 50 ppm	
Sk	
Additional information: The lists valid during the making were used as basis.	
Personal protective equipment:	
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated	
clothing Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin.	
Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use	
self-contained respiratory protective device.	
Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tes	S
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	
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	n
manufacturer to manufacturer.	
Penetration time of glove material:	
and the second s	
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.	
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection: Tightly sealed goggles	
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Eye protection: Tightly sealed goggles	
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Colourless

Odour						
Alcohol-like						
Change in con	dition					
Melting point/N	Nelting range					
-89°C						
Boiling point/B	oiling range					
116-118°C						
Flash point						
35°C						
Ignition	·	340°C				
Product is not	explosive. However	r, formation of explosive	e air/vapour mixture	es are possible.		
Exploid Density at 20°C Viscosity:	sion limits: 0.81 g/cm³ Dynamic at 20°C	Lower 1.5 Vol % Solubility in / Mis 2.95 mPas	6 Upper scibility with water a	9.4 Vol % at 20°C 77 g/l	Vapour pressure at 20°C pH-value (70 g/l) at 2	6.7 hPa 20°C 7

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

	Acute toxicity:	LD/LC50 values relevant for classification:	
(Oral		
ſ	Dermal		
ı	nhalative		
I	_D50		
I	_C50		
I	_C50/4 h		
7	790 mg/kg (rat)		
;	3400 mg/kg (rabbit)		
8	3000 mg/l (rat)		
danç	Primary irritant effect ger of severe eye injury.	t: on the skin Irritant to skin and mucous membranes. on the eye Sensitization No sensitizing effects known.	Strong irritant with the

General notes: Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Product:

Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

Land transport ADR/RID (cross-border)				ADR/RID class 3		3 Flammable liquids.		Danger code (Kemler)		
30		UN-Number	1120	Packa	ging group	Ш		Hazard labe	I 3	Description of
goods	1120 B	UTANOLS	Maritime tran	sport IMDG		IMDG C	Class	3	UN Number	1120
Label	l 3		Packaging group	III	EMS	Number	F-E,	S-D	Marine pollutant	. No
Р	roper shi	pping name	BUTANOLS	Air tran	sport ICAO-	TI and IA	TA-DGR		ICAO/IATA Class	3
UN/ID N	Number	1120	Label	3	Packag	ging group	III		Proper shipping nan	ne
BUTAN	OLS									

• Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Risk phrases:

- 10 Flammable.
- 22 Harmful if swallowed.
- 37/38 Irritating to respiratory system and skin.
- 41 Risk of serious damage to eyes.
- 67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 2 Keep out of the reach of children.
- 7/9 Keep container tightly closed and in a well-ventilated place.
- 13 Keep away from food, drink and animal feedingstuffs.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

DISCLAIMER OF LIABILITY: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.