

Current version: 1.0.1, issued: 12.10.2017 Reglaced version: 1.0.0, issued: 29.06.2017 Region: GB

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

1.1 Product identifier

Trade name

DOWCLENE™* 1601 Cleaning Fluid

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

Relevant identified uses of the substance or mixture

Industrial Solvent

Uses advised against

Uses which are not mentioned in the relevant identified uses.

1.3 Details of the supplier of the safety data sheet

Address

SAFECHEM Europe GmbH

Tersteegenstr. 25

40474 Düsseldorf

Germany

Telephone no. +49 211 4389300 Fax no. +49 211 4389389 e-mail service@safechem.com

Advice on Safety Data Sheet

sds@safechem.com

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Eye Irrit. 2; H319 Skin Irrit. 2; H315

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

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

Hazard pictograms



Signal word

Warning

Hazard statement(s)

H315 Causes skin irritation. H319 Causes serious eye irritation.



Current version: 1.0.1, issued: 12.10.2017 Replaced version: 1.0.0, issued: 29.06.2017 Region: GB

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/eye protection/face protection.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

PBT assessment No data available. vPvB assessment No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name			
	CAS / EC / Index /	CAS / EC / Index / Classification (EC) 1272/2008 (CLP) Concentration		%
4				
1	3-butoxypropan-2-			
	5131-66-8	Eye Irrit. 2; H319	>= 70.00 - < 90.00	%-b.w.
	225-878-4	Skin Irrit. 2; H315		
	603-052-00-8			
	01-2119475527-28			
2	Butoxy-1-propanol			
	15821-83-7	Eye Irrit. 2; H319	< 5.00	%-b.w.
	605-138-0	Skin Irrit. 2; H315		
	-			
	-			

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Eye Irrit. 2; H319: C >= 20%	-	-
		Skin Irrit. 2; H315: C >= 20%		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Adhere to personal protective measures when giving first aid. If the patient is likely to become unconscious, place and transport in stable sideways position. In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

After skin contact

In case of contact with skin wash off immediately with copious amounts of water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Call a doctor immediately. Never give anything by mouth to an unconscious person.



Current version: 1.0.1, issued: 12.10.2017 Reglaced version: 1.0.0, issued: 29.06.2017 Region: GB

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet; Carbon dioxide; Alcohol-resistant foam; Dry chemical extinguisher

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Product floats on the water surface and may reignite.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Only engage trained and adequately protected personnel. Refer to protective measures listed in sections 7 and 8. Do not inhale vapours. Keep away sources of ignition.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Prevent spread over a wide area (by containment with sand or earth). Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see chapter 7. Information regarding personal protective measures, see chapter 8. Information regarding waste disposal, see chapter 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not inhale vapours. Do not eat, drink or smoke during work time. After worktime and during work intervals the affected skin areas must be thoroughly cleaned. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Provide eye wash fountain in work area.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.



Current version: 1.0.1, issued: 12.10.2017 Replaced version: 1.0.0, issued: 29.06.2017 Region: GB

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage.

Appropriate Material carbon steel; stainless steel

Inappropriate material aluminium

Advice on storage assembly

Substances to be avoided, pls. See chapter 10.

7.3 Specific end use(s)

Industry solution

For further information contact supplier.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name	Substance name			
	Route of exposure	Exposure time	Effect	Value	
1	3-butoxypropan-2-ol			5131-66-8	
				225-878-4	
	dermal	Long term (chronic)	systemic	44.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	270.50	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure Exposure time Effect 1		Value		
1	3-butoxypropan-2-ol		5131-66-8		
				225-878-4	
	oral	Long term (chronic)	systemic	8.75	mg/kg/day
	dermal	Long term (chronic)	systemic	16.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	33.80	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	3-butoxypropan-2-ol		5131-66-8	
			225-878-4	
	water	fresh water	0.525	mg/l
	water	marine water	0.0525	mg/l
	water	Aqua intermittent	5.25	mg/l
	water	fresh water sediment	2.36	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0.236	mg/kg
	with reference to: dry weight			
	soil	-	0.16	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	10.00	mg/l

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator



Current version: 1.0.1, issued: 12.10.2017 Replaced version: 1.0.0, issued: 29.06.2017 Region: GB

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber

Appropriate Material chlorinated polyethylene (CPE)

Appropriate Material Polyethylene

Appropriate Material ethyl vinyl alcohol laminate (EVAL)

Appropriate Material In case of short-term contact / splash protection:

Material thickness > 0.35 mm
Breakthrough time > 10 min

Appropriate Material In case of longer-term contact:

Material thickness > 0.35 mm
Breakthrough time > 120 min

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
liquid	
colourless	

Odour characteristic

Odour threshold
No data available

pH value

No data available

Value 170 - 175 °C Source Supplier

Melting point / melting range

No data available

 Setting point / solidification range

 Value
 -75
 °C

 Source
 Supplier

Decomposition point / decomposition range

No data available

Flash point

Value 63 °C

Method ASTM D 93
Source Supplier

Auto-ignition temperature242 °CValueSupplier



Current version: 1.0.1, issued: 12.10.2017 Replaced version: 1.0.0, issued: 29.06.2017 Region: GB

	lising properties				
not c	oxidizing				
	losive properties				
Proc	luct does not present an explosion haza	ırd.			
Flan	nmability (solid, gas)				
No c	lata available				
Low	er flammability or explosive limits				
Valu			1.1	% vol	
Sour		Supplier	***	70 101	
Unn	er flammability or explosive limits				
Valu			8.4	% vol	
Sour	ce	Supplier			
Van	our pressure				
Valu			0.11	kPa	
Sour	ce	Supplier			
Vap	our density				
	lata available				
Eva	poration rate				
	lata available				
Rela	tive density				
Valu			0.88		
	rence temperature		25	°C	
Sour	ce	Supplier			
Den					
No c	lata available				
Solu	ibility in water				
Valu			6.3	%	
Sour	ce	Supplier			
Solu	ıbility(ies)				
	lata available				
Part	ition coefficient: n-octanol/water				
No	Substance name		CAS no.		EC no.
1	3-butoxypropan-2-ol		5131-66-8		225-878-4

Part	ition coefficient: n-octanol/water				
No	Substance name	CAS no.		EC no.	
1	3-butoxypropan-2-ol	5131-66-8		225-878-4	
log F	Pow		1.1		
Refe	erence temperature		20	°C	
with	reference to	pH 7			
Sou	rce	ECHA			

Viscosity					
Value	3.85 mm²/s				
Reference temperature	20 °C				
Туре	kinematic				
Source	Supplier				

9.2 Other information

 •
Other information
No data available.



Current version: 1.0.1, issued: 12.10.2017 Replaced version: 1.0.0, issued: 29.06.2017 Region: GB

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Hazard of decomposition at higher temperatures. Protect from heat and direct sunlight.

10.5 Incompatible materials

strong acids; strong oxidizing agents

10.6 Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acu	Acute oral toxicity					
No	Substance name		CAS no.		EC no.	
1	3-butoxypropan-2-ol		5131-66-8		225-878-4	
LD5	0			3300	mg/kg bodyweight	
Spe	cies	rat				
Meth	nod	OECD 401				
Sou	rce	ECHA				

Acu	Acute dermal toxicity					
No	Substance name		CAS no.		EC no.	
1	3-butoxypropan-2-ol		5131-66-8		225-878-4	
LD5	0	>		2000	mg/kg bodyweight	
Spe	cies	rat				
Sou	rce	ECHA				

Acute inhalational toxicity No data available

Skin	Skin corrosion/irritation					
No	Substance name	CAS no.	EC no.			
1	3-butoxypropan-2-ol	5131-66-8	225-878-4			
Spec	cies	rabbit				
Meth	nod	OECD 404				
Source		ECHA				
Evaluation		irritant				

Serious eye damage/irritation No data available

Res	Respiratory or skin sensitisation					
No	Substance name	CAS no.	EC no.			
1	3-butoxypropan-2-ol	5131-66-8	225-878-4			
Rou	te of exposure	Skin				
Species		guinea pig				
Method		OECD 406				
Source		ECHA				
Evaluation		non-sensitizing				



Current version: 1.0.1, issued: 12.10.2017 Reglaced version: 1.0.0, issued: 29.06.2017 Region: GB

Germ cell mutagenicity

No data available

Reproduction toxicity

No data available

Carcinogenicity
No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

12.1 Toxicity

Tox	Toxicity to fish (acute)					
No	Substance name	CAS n	0.		EC no.	
1	3-butoxypropan-2-ol	5131-€	66-8		225-878-4	
LC5	0	560	-	1000	mg/l	
Dura	ation of exposure			96	h	
Species		Poecilia reticulata				
Method		OECD 203				
Source		ECHA				

Toxicity to fish (chronic)

No data available

Tox	Toxicity to Daphnia (acute)					
No	Substance name	CAS no.		EC no.		
1	3-butoxypropan-2-ol	5131-66-8		225-878-4		
EC5	0	>	1000	mg/l		
Duration of exposure			48	h		
Species		Daphnia magna				
Method		OECD 202				
Source		ECHA				

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity
No data available

12.2 Persistence and degradability

Biod	Biodegradability					
No	Substance name	CAS no.		EC no.		
1	3-butoxypropan-2-ol	5131-66-8		225-878-4		
Valu	ie		90	%		
Dura	ation		28	day(s)		
Method		OECD 301 E				
Source		ECHA				
Evaluation		readily biodegradable				



Current version: 1.0.1, issued: 12.10.2017 Reglaced version: 1.0.0, issued: 29.06.2017 Region: GB

12.3 Bioaccumulative potential

Part	Partition coefficient: n-octanol/water					
No	Substance name		CAS no.		EC no.	
1	3-butoxypropan-2-ol		5131-66-8		225-878-4	
log Pow				1.1		
Reference temperature				20	°C	
with reference to		pH 7				
Source		ECHA				

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment			
PBT assessment	No data available.		
vPvB assessment	No data available.		

12.6 Other adverse effects

No data available.

12.7 Other information

Other information	
Do not discharge product unmonitored into the environment.	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant



Current version: 1.0.1, issued: 12.10.2017 Reglaced version: 1.0.0, issued: 29.06.2017 Region: GB

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

No 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Further information

™*Trademark of The Dow Chemical Company

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Department issuing safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH. Prod-ID 723273