Safety Data Sheet

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

CONDURSAL 777

Version number: GHS 3.0
Replaces version of: 2021-01-05

revision: 2021-02-12

SECTION 1: Identification

1.1 Product identifier

Trade name

CONDURSAL 777
CONDURSAL 777, streichfähig
CONDURSAL 777, spritzfähig
CONDURSAL 777, tauchfähig
CONDURSAL 777-2
CONDURSAL 777-3
CONDURSAL 777HK
CONDURSAL 777HTU
CONDURSAL 777HTU-2
CONDURSAL 777OSM
CONDURSAL 777 SWN
CONDURSAL 777SW
CONDURSAL 777BS

Registration number (REACH) — not relevant (mixture)

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

Relevant identified uses — industrial use

1.3 Details of the supplier of the safety data sheet

NÜSSLE GmbH & Co. KG
Iselshauser Str. 55
D-72202 Nagold
Germany

Telephone: +49 (0) 74 52-9 32 05-0
Telefax: +49 (0) 74 52-9 32 05-20
e-mail: mail@nuessle-kg.de

Competent person responsible for the safety data sheet — mail@nuessle-kg.de

1.4 Emergency telephone number

Emergency information service — This number is only available during the following office hours: +49 (0) 7452-9 32 05-0
Mon-Fri 08:00 AM - 04:00 PM

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.7	reproductive toxicity	Cat. 1B	(Repr. 1B)	H360

Remarks

For full text of H-phrases: see SECTION 16.

Supplemental hazard information

Code	Supplemental hazard information
HNOC002	may be harmful in contact with skin (GHS category 5: acutely toxic - dermal)

2.2 Label elements

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

Signal word — **Danger**

Pictograms

GHS08

Hazard statements

H360 May damage fertility or the unborn child (if swallowed).

Precautionary statements

Precautionary statements - prevention

P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/eye protection.

Precautionary statements - response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P308+P313 If exposed or concerned: Get medical advice/attention.

Precautionary statements - storage

P404 Store in a closed container.
P405 Store locked up.

Precautionary statements - disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional labeling requirements

HNOC002 May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).

Hazardous ingredients for labelling: Boric acid

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

2.4 Additional Information

Reproductive/Developmental: Animal ingestion studies in several species, at high doses, indicate that boric acid and sodium tetraborate cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effect on reproduction.
Ingestion: Products containing boric acid are not intended for ingestion. Boric acid has low acute toxicity. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	CAS No	EC No	Wt%	Classification acc. to GHS	Pictograms
Boric acid	10043-35-3	233-139-2	50 – < 75	Acute Tox. 4 / H332 Repr. 1B / H360	
2-(2-Butoxyethoxy)ethanol	112-34-5	203-961-6	< 5	Eye Irrit. 2 / H319	

SVHC: 10043-35-3 Boric acid. For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Take off immediately all contaminated clothing.

Following inhalation

Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.2 Special hazards arising from the substance or mixture

None.

5.3 Advice for firefighters

Non-combustible. Do not allow firefighting water to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal.

6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Incompatible substances or mixtures

Observe compatible storage of chemicals.

• Protect against external exposure, such as

frost

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

No information available.

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Boric acid	10043-35-3	DNEL	8.3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Boric acid	10043-35-3	DNEL	392 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(2-Butoxyethoxy)ethanol	112-34-5	DNEL	101.2 mg/m³	human, inhalatory	worker (industry)	acute - local effects
2-(2-Butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-(2-Butoxyethoxy)ethanol	112-34-5	DNEL	83 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
2-(2-Butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

• relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Boric acid	10043-35-3	PNEC	13.7 mg/l	aquatic organisms	water	intermittent release
Boric acid	10043-35-3	PNEC	2.9 mg/l	aquatic organisms	freshwater	short-term (single instance)
Boric acid	10043-35-3	PNEC	2.9 mg/l	aquatic organisms	marine water	short-term (single instance)
Boric acid	10043-35-3	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Boric acid	10043-35-3	PNEC	5.7 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
2-(2-Butoxyethoxy)ethanol	112-34-5	PNEC	1.1 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
2-(2-Butoxyethoxy)ethanol	112-34-5	PNEC	0.11 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
2-(2-Butoxyethoxy)ethanol	112-34-5	PNEC	200 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(2-Butoxyethoxy)ethanol	112-34-5	PNEC	4.4 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
2-(2-Butoxyethoxy)ethanol	112-34-5	PNEC	0.44 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
2-(2-Butoxyethoxy)ethanol	112-34-5	PNEC	56 $^{mg}/_{kg}$	aquatic organisms	water	short-term (single instance)
2-(2-Butoxyethoxy)ethanol	112-34-5	PNEC	0.32 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
2-(2-Butoxyethoxy)ethanol	112-34-5	PNEC	11 $^{mg}/_{l}$	aquatic organisms	water	intermittent release

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection

Use protective eyewear to guard against splash of liquids.

Skin protection

• hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

• type of material

CR: chloroprene (chlorobutadiene) rubber, IIR: isobutene-isoprene (butyl) rubber

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

During spraying wear suitable respiratory equipment.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid (viscous)
Color	blue
Odor	faintly perceptible

Other physical and chemical parameters

pH (value)	6 – 7 (20 °C)
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	not applicable
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Vapor pressure	23 Pa at 20 °C
Density	1.2 – 1.3 $^{g}/_{cm^3}$ at 20 °C
Solubility(ies)	
Water solubility	miscible in any proportion
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	not applicable
Viscosity	
• dynamic viscosity	>100 mPa s at 20 °C
Explosive properties	none
Oxidizing properties	none

9.2 Other information

Solid content	60 – 80 %

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

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10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

• Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Boric acid	10043-35-3	inhalation: dust/mist	2.12 $^{mg}/_{l}$/4h

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Boric acid	10043-35-3	oral	LD50	3,450 $^{mg}/_{kg}$	rat
Boric acid	10043-35-3	inhalation: dust/mist	LC50	>2.12 $^{mg}/_{l}$/4h	rat
Boric acid	10043-35-3	dermal	LD50	>2,000 $^{mg}/_{kg}$	rabbit
2-(2-Butoxyethoxy)ethanol	112-34-5	oral	LD50	>2,000 $^{mg}/_{kg}$	rat
2-(2-Butoxyethoxy)ethanol	112-34-5	dermal	LD50	2,764 $^{mg}/_{kg}$	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties

May damage the unborn child (if swallowed).
May damage fertility (if swallowed).
Shall not be classified as germ cell mutagenic.
Shall not be classified as carcinogenic.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Additional toxicological Information

Human data: Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid and sodium borate dust. Human epidemiological studies indicate no effect on fertility in occupational populations with chronic exposures to borate dust and indicate no effect to a general population with high exposures to borates in the environment.
Reproductive/developmental toxicity: No data is available on the product itself. However, animal feeding studies with boric acid and sodium tetraborate in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Studies with the chemically related boric acid in rat, mouse and rabbit, at high doses, demonstrate developmental effects on the foetus including foetal weight loss and minor skeletal variations. The lowest NOAEL is 9.6 mg B/kg in rats, based on developmental effects. The doses administered were many times in excess of those which humans would normally be exposed to Carcinogenicity/Mutagenicity: No evidence of carcinogenicity in mice. Not mutagenic (based on boric acid).

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Boric acid	10043-35-3	LC50	447 $^{mg}/_{l}$	fish	96 h
2-(2-Butoxyethoxy)ethanol	112-34-5	LC50	1,300 $^{mg}/_{l}$	fish	96 h
2-(2-Butoxyethoxy)ethanol	112-34-5	EC50	>100 $^{mg}/_{l}$	aquatic inverteb-rates	48 h
2-(2-Butoxyethoxy)ethanol	112-34-5	ErC50	1,101 $^{mg}/_{l}$	algae	72 h

Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Boric acid	10043-35-3	EC50	180.6 $^{mg}/_{l}$	aquatic inverteb-rates	24 h

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
2-(2-Butoxyethoxy)ethanol	112-34-5	oxygen depletion	85 %	28 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Boric acid	10043-35-3		-1.09 (pH value: 7.5, 22 °C)	
2-(2-Butoxyethoxy)ethanol	112-34-5		1 (pH value: 7, 20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled.

Relevant provisions relating to waste

List of wastes

08 01 11* Wastes from MFSU and removal of paint and varnish

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	Transport hazard class(es) Class	 -
14.4	Packing group	not assigned to a packing group
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user

There is no additional information.

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

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

• International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

• International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

Abbr.	Descriptions of used abbreviations
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH)
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H360	May damage fertility or the unborn child (if swallowed).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.