

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

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

1.1 Product identifier

Trade name Arcora Flexal

UFI: 5E20-C04Q-G003-CX2H

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

No further relevant information available.

Application of the substance / the mixture Cleaner

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ARCORA® International GmbH

Marsstraße 9

D-85609 Aschheim

Telefon: +49 (0)89 / 14 33 29 3-0

Telefax: +49 (0)89 / 14 33 29 3-29

E-Mail: info@arcora.de

Informing department: Product safety department

1.4 Emergency telephone number:

Beratungsstelle bei Vergiftungen, Berlin (Giftnotrufzentrale Charité)

Tel.: +49 (0) 30 / 30686-700 (Beratung in Deutsch und Englisch)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye Irrit. 2 H319 Causes serious eye irritation.

Additional information:

The classification of the mixture is based on the additivity principle of the ingredients to be considered as laid down in the CLP Regulation, taking into account specified substance-specific concentration limits (if available).

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear eye protection / face protection.

(Contd. on page 2)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

Trade name Arcora Flexal

(Contd. of page 1)

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Determination of endocrine-disrupting properties

The substance/mixture does not contain components in quantities of 0.1% or more considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of the substances listed below with harmless additions (aqueous solution).

Dangerous components:

CAS: 160875-66-1 Polymer	2-Propylheptanoethoxylate (6-10 EO) ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302 Specific concentration limits: Eye Dam. 1; H318: $C \geq 10\%$ Eye Irrit. 2; H319: $1\% \leq C < 10\%$	$\geq 2.5 - < 5\%$
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol ☠ Eye Irrit. 2, H319	$\geq 1 - < 2.5\%$

SVHC

This product does not contain any substances of very high concern (REACH Regulation (EC) No 1907/2006, Article 57).

Regulation (EC) No 648/2004 on detergents / Labelling for contents

non-ionic surfactants, perfumes (TERPINEOL)

<5%

Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Instantly remove any clothing soiled by the product.

After inhalation Supply fresh air; consult doctor in case of symptoms.

After skin contact

Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

(Contd. on page 3)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

Trade name Arcora Flexal

(Contd. of page 2)

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition may release irritant gases and vapours

5.3 Advice for firefighters

Protective equipment:

See section 8.

Wear full protective suit with self-contained breathing apparatus.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment and keep unprotected persons away.

6.2 Environmental precautions:

Dilute with much water.

If large amounts are released, the authorities must be informed.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

6.4 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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Keep containers tightly sealed.

Information about protection against explosions and fires: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed. Store in cool, dry conditions.

Requirements to be met by storerooms and containers:

Observe official regulations on storage and handling of water hazardous substances

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

(Contd. on page 4)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

Trade name Arcora Flexal

(Contd. of page 3)

Storage class

12 Non-flammable liquids (TRGS 510, Storage of hazardous substances in portable containers)

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (≥1-<2.5%)

IOELV (European Union)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
AGW (Germany)	Long-term value: 67 mg/m ³ , 10 ppm 1.5(l);EU, DFG, Y, 11

DNELs

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

Oral	DNEL (population)	6.25 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (worker)	101.2 mg/m ³ (Acute - local effects) 67.5 mg/m ³ (Long-term - local effects)

PNECs

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

PNEC aqua	1.1 mg/l (fresh water) 0.11 mg/l (marine water)
PNEC	0.32 mg/kg dw (soil)
PNEC sediment	4.4 mg/kg dw (fresh water) 0.44 mg/kg dw (marine water)

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Breathing equipment: Not required.

Hand protection

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl rubber, BR

(Contd. on page 5)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

Trade name Arcora Flexal

(Contd. of page 4)

Nitrile rubber, NBR

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.

Eye/face protection Safety glasses

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

liquid

Colour:

Blue

Smell:

Pleasant

Odour threshold:

Not determined.

Melting point/freezing point:

Not determined

Boiling point or initial boiling point and boiling range

Not determined

Flammability

Not applicable.

Lower and upper explosion limit

Lower:

Not determined.

Upper:

Not determined.

Flash point:

Product is non-flammable nor potentially explosive

Auto-ignition temperature:

(lowest level for individual components)

Decomposition temperature:

Not determined.

pH at 20 °C

ca. 7

pH-value:

Viscosity:

Kinematic viscosity

Not determined.

dynamic:

Not determined.

Solubility

Water:

Fully miscible

Partition coefficient n-octanol/water (log value)

Not applicable for mixtures.

Vapour pressure:

Not determined.

Density and/or relative density

Density at 20 °C

1.016 g/cm³

Relative density

Not determined.

Vapour density

Not determined.

Particle characteristics

Not relevant (liquid)

(Contd. on page 6)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

Trade name Arcora Flexal

(Contd. of page 5)

9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health and environment, and on safety.

Self-inflammability: Product is not selfigniting.

Explosive properties: Product is not potentially explosive

Change in condition

Evaporation rate Not determined.

Information with regard to physical hazard classes

Explosives Void

Flammable gases Void

Aerosols Void

Oxidising gases Void

Gases under pressure Void

Flammable liquids Void

Flammable solids Void

Self-reactive substances and mixtures Void

Pyrophoric liquids Void

Pyrophoric solids Void

Self-heating substances and mixtures Void

Substances and mixtures, which emit flammable gases in contact with water Void

Oxidising liquids Void

Oxidising solids Void

Organic peroxides Void

Corrosive to metals Void

Desensitised explosives Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: strong oxidizing agents

10.6 Hazardous decomposition products:

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.

EU

(Contd. on page 7)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

Trade name Arcora Flexal

(Contd. of page 6)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	15,556-37,778 mg/kg
------	------	---------------------

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	>5,000 mg/kg (rat) 2,410 mg/kg (mouse)
------	------	---

Dermal	LD50	2,764 mg/kg (rabbit)
--------	------	----------------------

CAS: 160875-66-1 2-Propylheptanoethoxylate (6-10 EO)

Oral	LD50	700-1,700 mg/kg (rat)
------	------	-----------------------

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

Not all ingredients are listed

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

The mixture has been classified according to Article 4.1.3.5 of the CLP Regulation based on the available data of the components (summation method):

The mixture has no aquatic toxicity.

12.2 Persistence and degradability

The organic components contained are easily biodegradable.

CAS: 160875-66-1 2-Propylheptanoethoxylate (6-10 EO)

Biodegradability	>60 % (OECD 301 D)
------------------	--------------------

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

DOC - Elimination	>90 % (OECD 301 E)
-------------------	--------------------

12.3 Bioaccumulative potential No further relevant information available.

(Contd. on page 8)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

Trade name Arcora Flexal

(Contd. of page 7)

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

Recommendation

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

Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

Uncleaned packagings: Disposal must be made according to official regulations.

Recommendation:

After complete emptying and cleaning, send to be reconditioned or recycled.

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA Void

14.2 UN proper shipping name

ADR, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR, IMDG, IATA
Class Void

14.4 Packing group

ADR, IMDG, IATA Void

(Contd. on page 9)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

Trade name Arcora Flexal

(Contd. of page 8)

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO instruments Not applicable.

UN "Model Regulation": Void

SECTION 15: Regulatory information

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

TSCA (Toxic Substances Control Act)

All ingredients are listed.

Canadian Domestic Substances List (DSL)

All ingredients are listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

Not all ingredients are listed

Chinese Chemical Inventory of Existing Chemical Substances (IECSC)

All ingredients are listed.

Australian Inventory of Industrial Chemicals (AIIC)

All ingredients are listed.

Korean Existing Chemical Inventory (KECI)

All ingredients are listed.

New Zealand Inventory of Chemicals (NZIoC)

All ingredients are listed.

Taiwan Chemical Substance Inventory (TCSI)

All ingredients are listed.

Japan - Existing Chemical Substances (ENCS)

All ingredients are listed.

Directive 2012/18/EU

Named dangerous substances - ANNEX I (12. BImSchV) Not all ingredients are listed

REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

Not all ingredients are listed

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

Not all ingredients are listed

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

(Contd. on page 10)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

Trade name Arcora Flexal

(Contd. of page 9)

Regulation (EU) No 649/2012

Not all ingredients are listed

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Not all ingredients are listed

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Not all ingredients are listed

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Not all ingredients are listed

Regulation (EC) No 273/2004 on drug precursors

Not all ingredients are listed

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Not all ingredients are listed

REGULATION (EU) 2024/590 on substances that deplete the ozone layer

Not all ingredients are listed

National regulations

Information about limitation of use:

Employment restrictions concerning young persons must be observed.

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

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

In accordance with Annex II of EC No 1907/2006 as applicable on the date of this safety data sheet.

Registration-Number

Relevant phrases

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Registration-Number

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:

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

ICAO: International Civil Aviation Organisation

(Contd. on page 11)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.12.2025

Version number 1

Revision: 25.11.2025

Trade name Arcora Flexal

(Contd. of page 10)

LEV: Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC and RCR= Estimated Exposition/DNEL)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

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)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substance of Very High Concern

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

EU