

Safety Data Sheet

according to Regulation (EC) No 1907/2006



PRO PRIMER

Compilation date: 27.10.2017
Revision date: 15.12.2017

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

1.1 1.1 Product identifier

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

Use of the substance/mixture

Inapplicable.

1.3 Details of the supplier of the safety data sheet

Company name: Arcora International GmbH
Street: Marsstraße 9
Place: 85609 Aschheim by Munich
Germany
Tel: +49 (0)89 / 14 33 29 3-0
Fax: +49 (0)89 / 14 33 29 3-29
E-Mail: info@arcora.de

1.4 Emergency telephone number + 49 (0) 89 / 14 33 29 3-10

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Hazard categories:
Eye Irrit. 2, H319
Aquatic Chronic 3, H412
Hazard Statements:
Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.

Ingredients of unknown toxicity

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 28.8%
There is no toxicity data available for the polymer in this product, which is exempt and categorized in a low concern functional group under the EPA's Toxic Substances Control Act (TSCA).

Ingredients of unknown ecotoxicity

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 28.8%
There is no data for hazards to the aquatic environment available for the polymer in this product, which is exempt and categorized in a low concern functional group under the EPA's Toxic Substances Control Act (TSCA).

2.2 Label elements

Signal word: Warning
Pictograms: GHS07

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Hazard statements

H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention: Wear eye or face protection. Avoid release to the environment. Wash hands thoroughly after handling.

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

Storage: Not applicable

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients:

2-(2-ethoxyethoxy)ethanol
ethandiol

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Hazardous components

EG-No.	Chemical name	Quantity
CAS-No.		
Verzeichnis	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH-No.		
203-919-7	2-(2-ethoxyethoxy) ethanol	≥ 6 - < 10
111-90-0		
	Eye Irrit.2, H319	
203-473-3	Ethandiol	≥ 3 - < 5
107-21-1		
603-027-00-1	Acute Tox. 4, H302; Eye Irrit.2, H319	
201-122-9	Tris(2-butoxyethyl)phosphate	≥ 3 - < 5
78-51-3		
	Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
	octylphenol, ethoxiliert	≥ 0.3 - < 1

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9036-19-5		
	Eye Irrit. 2, H319; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
215-647-6	Ammonia	≥ 0.1 - < 0.3
1336-21-6		
007-001-01-2	Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Acute 1, H400; Aquatic Chronic 3, H412	
247-500-7	5-chlor-2-methyl-2hisothiazol-3-on	≥ 0.01 - < 0.03
26172-55-4		
	acute tox. 3, H311 N; acute tox. 1, H330; aquatic acute 1, H400; aquatic chronic 1, H410	

Full text of H and EUH statements: see section 16.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.

Over-exposure signs/symptoms:

Inhalation	No specific data.
Skin contact	No specific data.
Eye contact	The symptoms can include: Pains or irritations, lacrimation, redness
Ingestion	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products:

Decomposition products may include the following materials:
carbon dioxide, carbon monoxide, phosphorus oxides.

5.3 Advice for firefighters

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid
Colour: Opaque White
Odour: bland

Test method

pH-value (at 20 °C): 9-10

Changes in the physical state

Melting point: approx. 0 °C
Initial boiling point and boiling range: approx. 100 °C
Flash point: Closed cup: > 93,334 °C

Flammability

Solid: not applicable
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Auto-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined

Oxidizing properties

not oxidising.

Vapor pressure: < 4 kPa (bei Raumtemperatur)
Density: 1,04 g/cm³
Water solubility: completely miscible

Solubility in other solvents

not determined

Partition coefficient: not applicable
Dyn. Viscosity (at 25 °C): not applicable
Vapour density: < 1
Evaporation rate: not determined

VOC-content: VOC is applicable to use dilution product.

9.2 Other information

No data available.

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SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

No specific data.

10.5 Incompatible materials

No specific data.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

CAS-No.	Chemical name				
	Exposure way	Method	Dose	Species	Source
	2-(2-ethoxyethoxy)ethanol				
	Oral	LD50	7500 mg/kg	Rat	
	Ethandiol				
	Oral	LD50	4700 mg/kg	Rat	
	Tris(2-butoxyethyl)phosphate				
	Oral	LD50	3 g/kg	Rat	
	Octylphenol, ethoxylated				
	Oral	LD50	4190 mg/kg	Rat	
	Ammonia				
	Oral	LD50	350 mg/kg	Ra	
	5-chlor-2-methyl-2hisothiazol-3-on				
	Oral	LD50	457 mg/kg	Rat	
	Dermal	LD50	660 mg/kg	Rabbit	
	inhalative vapour (4 h)	LC50	0,33 mg/l	Rat	

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Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Obsevation
2-(2-Ethoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	125 mg	-
	Eyes - Moderate irritan	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours, 500 mg	-
Ethandiol	Eyes - Mild irritant	Rabbit	-	24 hours, 500 mg	-
	Eyes - Mild irritant	Rabbit	-	1 hours, 1000 mg	-
	Eyes - Moderate irritan	Rabbit	-	6 hours, 1440 mg	
	Skin - Mild irritant	Rabbit	-	555 mg	
Tris(2-butoxyethyl)phosphat	Eyes - Mild irritant	Rabbit	-	24 hours, 500 mg	
	Skin - Mild irritant	Rabbit	-	24 hours, 500 mg	
Octylphenol, ethoxylated	Eyes - Moderate irritan	Rabbit	-	15 mg	
	Eyes - Severe irritant	Rabbit	-	1 %	
Ammonia	Eyes - Severe irritant	Rabbit	-	250 µg	
	Eyes - Severe irritant	Rabbit	-	0,5 min, 1 mg	

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Ammonia	Category 3	Not applicable	Irritation of airway

Possible acute effects on health

Causes serious eye irritation.

Possible acute effects on health

Causes serious eye irritation.

Harmful if inhaled.

Harmful in contact with skin. Causes skin irritation.

Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristic

Inhalation	No specific data.
Skin contact	No specific data.
Eye contact	Adverse symptoms may include the following: pain watering redness
Ingestion	No specific data.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-(2-Ethoxyethoxy)ethanol	Acute LC50 3340000 µg/l Fresh water	Daphnie - Daphnia magna Neonate	48 hours
	Acute LC50 6010000 µg/l Fresh water	Fish - Ictalurus punctatus	96 hours
Ethandiol	Acute LC50 6900000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia – Neugeborenes	48 hours
	Acute LC50 41000000 µg/l Fresh water	Daphnie - Daphnia magna Neonate	48 hours
	Acute LC50 8050000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Tris(2-butoxyethyl)phosphat	Acute LC50 11200 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Octylphenol, ethoxylated	Acute EC50 210 µg/l Fresh water	Algen - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus montagui - Adultus	48 hours
	Acute LC50 8600 µg/l Fresh water	Daphnie - Daphnia magna Neonate	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ammonia	Acute LC50 37 ppm Fresh water	Fish - Gambusia affinis Adultus	96 hours
5-Chlor-2-methyl- 2hisothiazol-3-on	Acute EC50 0.021 ppm Marine water	Algea - Skeletonema costatum	72 hours
	Acute EC50 0.062 ppm Fresh water	Algea - Pseudokirchneriella subcapitata	4 Day
	Acute EC50 13 ppm Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute EC50 0.18 ppm Fresh water	Daphnie - Daphnia magna	48 hours
	Acute LC50 0.19 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.1 ppm Marine water	Daphnie - Daphnia magna	21 Days
Chronic NOEC 0.02 ppm	Fish - Pimephales promelas	36 Days	

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-(2-Ethoxyethoxy)ethanol	-0,54	-	low
Ethandiol	-1,36	-	low
Tris(2-butoxyethyl)phosphate	3,75	5,8	low

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14.3 The transport hazard class

14.4 Packing group

Other relevant information about Inland waterways transport

lapse

Marine transport (IMDG)

14.1 UN-number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

14.3 The transport hazard class

14.4 Packing group

Other relevant information about marine transport

lapse

Air transport (ICAO)

14.1 UN-number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

14.3 The transport hazard class

14.4 Packing group

Other relevant information about air transport

lapse

14.5 Environmental hazards

no

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU regulatory information (EG) No. 1907/2006 (REACH)

Annex XIV the list of substances subject to authorisation.

Annex XIV

None of the components are listed.

Substances of Very High Concern

None of the components are listed.

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Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable

Other EU-Community regulations

All components are listed or exempted.

Seveso Directive

This product is controlled under the Seveso Directive.

National regulations

MAL-Code: 00-3

Protection based on MAL: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving splattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-3

Application: During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone.

-Coveralls must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.

- Arm protectors and apron must be worn.

During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

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Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution

The regulations contain other stipulations in addition to the above.

*See Regulations.

Restrictions on use: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order on young people's dangerous work.

15.2 Chemical Safety Assessment

This product contains a substance(s) for which a chemical safety assessment is not required because it is below the maximum allowable import threshold under REACH.

SECTION 16: Other information

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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized 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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:

PROC 1: Use in closed processes.

PROC 8 Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

PROC 10 (Roller application or brushing): Processing without large-scale spraying.

PROC 11 ((Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).

PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection.

Wortlaut der H- und EUH-Sätze (Nummer und Volltext)

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.