

Anodal SH2 liq

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Substance key: KS14184

Revision Date: 02.08.2022

Version : 8 - 0 / EU

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

1.1. Product identifier

Trade name

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Material number: 102708

Chemical nature: arylsulfonate, anionic, sodium salts

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

Relevant identified uses of the substance or mixture

Industry sector : Industrial Performance Chemicals
Type of use : aluminium chemicals

1.3. Details of the supplier of the safety data sheet

Identification of the company

Heubach Colorants Germany GmbH
Brüningstraße 50
65929 Frankfurt am Main
Telephone no. : +49 69 305 13619

Information about the substance/mixture

Product Stewardship
e-mail: SDS.PI.Europe@clariant.com

1.4. Emergency telephone number

00800-5121 5121 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1 H318: Causes serious eye damage.

Short-term (acute) aquatic hazard, Category 1 H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : **Danger**

Hazard statements : **H318 Causes serious eye damage.**

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Precautionary statements :	<p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>Prevention:</p> <p>P273 Avoid release to the environment. P280 Wear eye protection/ face protection.</p> <p>Response:</p> <p>P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P391 Collect spillage.</p> <p>Disposal:</p> <p>P501 Dispose of contents/ container to an approved waste disposal plant.</p>
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Hazardous components which must be listed on the label:

Mono- and dihexadecyl disulphonated diphenyl oxide, disodium salt
Benzenesulfonic acid, oxybis(hexadecyl-, disodium salt

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

No additional hazards are known except those derived from the labelling.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : arylsulfonate
anionic
Sodium salts

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Mono- and dihexadecyl disulphonated diphenyl oxide, disodium salt	65143-89-7 405-430-6	Eye Dam. 1; H318 Aquatic Chronic 1; H410	>= 10 - < 20

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		Aquatic Acute 1; H400	
Benzenesulfonic acid, oxybis(hexadecyl-, disodium salt	70191-76-3	Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 3 - < 10
Formaldehyde, polymers with sulfonated 1,1'- oxybis[methylbenzene], sodium salts	73378-66-2	Aquatic Chronic 3; H412	>= 2,5 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Get medical advice/ attention if you feel unwell.
- If inhaled : If inhaled, remove to fresh air.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
- If swallowed : Rinse mouth with water.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : No additional hazards are known except those derived from the labelling.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : all
- Unsuitable extinguishing media : No restrictions

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Sulphur oxides

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5.3 Advice for firefighters

Special protective equipment : In case of combustion use a suitable breathing apparatus.
for firefighters

Further information : Wear suitable protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

Information regarding Safe handling, see chapter 7.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle and open container with care.
Avoid breathing mist.

Advice on protection against : No special measures necessary.
fire and explosion

Hygiene measures : Remove/ Take off immediately all contaminated clothing.
Wash hands before breaks and at the end of workday. Do not
eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep only in the original container.
areas and containers

Further information on : Keep containers tightly closed in a cool, well-ventilated place.
storage conditions

7.3 Specific end use(s)

Specific use(s) : No further recommendations.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Ammonium acetate CAS-No.: 631-61-8	Workers	Inhalation	Long-term systemic effects	911,56 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Acute systemic effects	5469,35 mg/m3
	Remarks:DNEL			
	Workers	Dermal	Long-term systemic effects	10,34 mg/kg bw/day
	Remarks:DNEL			
	Workers	Dermal	Acute systemic effects	62,04 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Inhalation	Long-term systemic effects	449,56 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Acute systemic effects	2674,16 mg/m3
	Remarks:DNEL			
	Consumers	Dermal	Long-term systemic effects	5,17 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Dermal	Acute systemic effects	31,02 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Oral	Long-term systemic effects	5,17 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Oral	Acute systemic effects	31,02 mg/kg bw/day
	Remarks:DNEL			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Ammonium acetate CAS-No.: 631-61-8	Fresh water	3,08 mg/l
	Marine water	0,0308 mg/l
	Sewage treatment plant	677 mg/l
	Fresh water sediment	2,51 mg/kg dry weight (d.w.)
	Marine sediment	0,251 mg/kg dry weight (d.w.)
	Soil	0,72 mg/kg dry weight (d.w.)

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8.2 Exposure controls

Engineering measures

Use with local exhaust ventilation.

Personal protective equipment

Eye/face protection : safety glasses/face shield

Hand protection

Remarks : Use impermeable, CE-approved gloves for the manipulation of chemical products. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : working clothes

Respiratory protection : Breathing apparatus needed only when aerosol or mist is formed.

Protective measures : Avoid contact with eyes.
Do not breathe vapours, aerosols.
Do not breathe mist.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : yellow

Odour : not significant

Odour Threshold : not required

Melting point : Decomposition: no
Not applicable

Boiling point : approximately 100 °C (1.013 hPa)
Decomposition: no

Upper explosion limit / upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Flash point : 100 °C(1.013 hPa)
No flash point - Measure made up to the boiling point.

Auto-ignition temperature : not determined

Decomposition temperature : The product does not contain any chemical groups which

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suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy higher than 300 J/g.

pH	:	5 - 6,5 (20 °C) Concentration: 100 %
Viscosity Viscosity, kinematic	:	not determined
Solubility(ies) Water solubility	:	(20 °C) miscible
Partition coefficient: n- octanol/water	:	not determined
Vapour pressure	:	not determined
Relative density	:	no data available
Density	:	1,2 g/cm ³ (20 °C, 1.013 hPa)
Relative vapour density	:	not determined
Particle characteristics Particle size	:	Not applicable

9.2 Other information

Explosives	:	no data available
Oxidizing properties	:	no data available
Flammable solids Burning number	:	Not applicable
Metal corrosion rate	:	no data available
Evaporation rate	:	not determined
Minimum ignition energy	:	not determined
Molecular weight	:	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

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Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

When used and handled as intended, none.

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: 1999/45/EC

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Skin corrosion/irritation

Product:

Method : 1999/45/EC
Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : not tested.

Components:

|| Mono- and dihexadecyl disulphonated diphenyl oxide, disodium salt:

Result : Risk of serious damage to eyes.

|| Benzenesulfonic acid, oxybis(hexadecyl-, disodium salt:

Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Remarks : no data available

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Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity-
Assessment : No information available.

Carcinogenicity

Product:

Carcinogenicity -
Assessment : No information available.

Reproductive toxicity

Product:

Reproductive toxicity -
Assessment : No information available.

STOT - single exposure

Product:

Remarks : no data available

STOT - repeated exposure

Product:

Remarks : no data available

Repeated dose toxicity

Product:

Remarks : This information is not available.

Aspiration toxicity

Product:

no data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Further information

Product:

Remarks : The product has not been tested. The information is derived from the properties of the individual components.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1 - 10 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : Remarks: no data available

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : IC50 (activated sludge): > 1.000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Method: OECD Test Guideline 209

Components:

|| Mono- and dihexadecyl disulphonated diphenyl oxide, disodium salt:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

|| Benzenesulfonic acid, oxybis(hexadecyl-, disodium salt:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

|| Formaldehyde, polymers with sulfonated 1,1'-oxybis[methylbenzene], sodium salts:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 200 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): 17 mg/l

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plants

Exposure time: 72 h

12.2 Persistence and degradability

Product:

Biodegradability : Test Type: aerobic
Result: Not readily biodegradable.
Biodegradation: 49 %
Related to: Dissolved organic carbon (DOC)
Exposure time: 28 d
Method: OECD Test Guideline 301E

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Environmental fate and pathways : no data available

Additional ecological information : Product does not contain any organic bound Halogens which could lead to AOX-values.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Consider recycling.

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SECTION 14: Transport information

Section 14.1. to 14.5.

ADR

UN no.	UN 3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.
Hazard inducer(s):	Mono- and dihexadecyl disulphonated diphenyl oxide, disodium salt
Class:	9
Primary risk:	9
Packing group:	III
Hazard no. :	90
Remarks	Shipment permitted

ADN

UN no.	UN 3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.
Hazard inducer(s):	Mono- and dihexadecyl disulphonated diphenyl oxide, disodium salt
Class:	9
Primary risk:	9
Packing group:	III
Remarks	Shipment permitted

RID

UN no.	UN 3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.
Hazard inducer(s):	Mono- and dihexadecyl disulphonated diphenyl oxide, disodium salt
Class:	9
Primary risk:	9
Packing group:	III
Hazard no. :	90
Remarks	Shipment permitted

IATA

UN no.	UN 3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.
Hazard inducer(s):	Mono- and dihexadecyl disulphonated diphenyl oxide, disodium salt
Class:	9
Primary risk:	9
Packing group:	III
Remarks	Shipment permitted

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IMDG

UN no.	UN 3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.
Hazard inducer(s):	Mono- and dihexadecyl disulphonated diphenyl oxide, disodium salt
Class:	9
Primary risk:	9
Packing group:	III
Remarks	Shipment permitted
Marine pollutant:	Marine Pollutant
EmS :	F-A S-F

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

Further information

Non-dangerous good of class 9 for packagings <= 5 L / 5 kg

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	:	Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Other regulations:

Apart from the data/regulations specified in this chapter, no further information is available

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concerning safety, health and environmental protection.

15.2 Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: Other information

Full text of H-Statements

- H318 : Causes serious eye damage.
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.

Full text of other abbreviations

- Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Further information

Classification of the mixture:

Classification procedure:

Eye Dam. 1	H318	Calculation method
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Calculation method

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Heubach makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Heubach's products for its particular application. Nothing included in this information waives any of Heubach's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Heubach products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Heubach.

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