SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758

Spartex 829228

Version	Revision Date:	SDS Number:	Date of last issue: 20.11.2023
2.0	05.01.2024	100000018246	Date of first issue: 05.10.2023

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

1.1 Product identifier

Trade name	:	Spartex 829228
Product code	:	Spartex 829228

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

Use of the Substance/Mixture	:	Adhesive
Recommended restrictions on use	:	For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company	:	Rubix Engineering
Address	:	61 Avenue Tony Garnier, 69007, Lyon, France +33 (1) 44 86 08 10
E-mail address of person responsible for the SDS	:	info-rubix-engineering@rubix.com

1.4 Emergency telephone number

Emergency telephone number	:	+44 1235 239 670 (24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements :

Prevention:

P261 Avoid breathing mist or vapours.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

2-hydroxyethyl methacrylate
2'-phenylacetohydrazide
1-amino-4-hydroxy-2-phenoxyanthraquinone

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-hydroxyethyl methacrylate	868-77-9 212-782-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10

	607-124-00-X 01-2119490169-29-0000	Skin Sens. 1; H317	
acrylic acid	79-10-7 201-177-9 607-061-00-8	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Corr. 1A; H314 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400	>= 0,25 - < 1
alpha,alpha-dimethylbenzyl hydroperoxide	80-15-9 201-254-7 617-002-00-8 01-2119475796-19-0000	Org. Perox. E; H242 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Chronic 2; H411	>= 0,25 - < 1
triphenyl phosphite	101-02-0 202-908-4 015-105-00-7	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
1-amino-4-hydroxy-2-phenoxyanthraquinone	17418-58-5 241-442-6	Skin Sens. 1A; H317	>= 0,1 - < 1
2'-phenylacetohydrazide	114-83-0 204-055-3	Acute Tox. 3; H301 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 0,1 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
In case of unconsciousness bring patient into stable side position for transport.

In case of skin contact : If skin irritation persists, call a physician.

In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

If swallowed : If accidentally swallowed obtain immediate medical attention.
Rinse mouth with water.
If conscious, drink plenty of water.
Do NOT induce vomiting.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water mist
Dry powder
Carbon dioxide (CO2)
Alcohol-resistant foam

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : May release toxic, irritating and/or corrosive gases.
In case of fire, the following substance(s) may occur:

Nitrogen oxides
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters : No special protective measures against fire required.

Further information : In the event of fire, wear self-contained breathing apparatus.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Ensure adequate ventilation.
Send for recovery or disposal in suitable containers.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Dispose of contaminated material as waste according to section 13.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of dust and aerosols.
Use only with adequate ventilation.
Handle with care.
Keep eye wash bottle available on working place.
Avoid release to the environment.
Keep away from children.

Advice on protection against fire and explosion : In the event of fire and/or explosion do not breathe fumes. Keep breathing equipment ready. Have fire extinguishing equipment ready in case of nearby fire.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container in a cool, well ventilated place away from oxidizing agents. Keep in a dry place. Protect against light.

Further information on storage conditions : Keep container tightly sealed.

Advice on common storage : Keep away from metals.

7.3 Specific end use(s)

Specific use(s) : No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
acrylic acid	79-10-7	STEL	20 ppm 59 mg/m3	GB EH40
		TWA	10 ppm 29 mg/m3	GB EH40
		STEL	20 ppm 59 mg/m3	2017/164/EU
	Further information: Indicative			
		TWA	10 ppm 29 mg/m3	2017/164/EU
	Further information: Indicative			

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
2-hydroxyethyl methacrylate	Workers	Inhalation	Systemic, long-term	4,9 mg/m3
	Workers	Eye contact	Local effects	
	Workers	Dermal	Systemic, long-term	1,3 mg/kg
acrylic acid	Workers	Inhalation	Systemic, short-term	30 mg/m3

	Workers	Inhalation	Local, long-term	30 mg/m3
	Workers	Inhalation	Systemic, long-term	30 mg/m3
	Workers	Inhalation	Local, short-term	30 mg/m3
	Workers	Eye contact	Local effects	
alpha,alpha-dimethylbenzyl hydroperoxide	Workers	Inhalation	Systemic, long-term	6 mg/m3
triphenyl phosphite	Workers	Inhalation	Systemic, long-term	1,06 mg/m3
	Workers	Dermal	Local, short-term	11,7 µg/cm2
	Workers	Inhalation	Systemic, long-term	0,53 mg/m3
	Workers	Dermal	Local, long-term	11,7 µg/cm2
	Workers	Eye contact	Local effects	
	Workers	Dermal	Systemic, long-term	0,3 mg/kg
	Workers	Dermal	Systemic, long-term	0,15 mg/kg
1-amino-4-hydroxy-2-phenoxyanthraquinone	Workers	Inhalation	Systemic, long-term	3,53 mg/m3
	Workers	Eye contact	Local effects	

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
2-hydroxyethyl methacrylate	Fresh water sediment	3,79 mg/kg
	Sewage treatment plant	10 mg/l
	Marine water	0,482 mg/l
	Marine sediment	3,79 mg/kg
	Soil	0,476 mg/kg
	Fresh water	0,482 mg/l
acrylic acid	Soil	1 mg/kg
	Predator	0,03 g/kg
	Marine water	0 mg/l
	Fresh water	0,003 mg/l
	Marine sediment	0,002 mg/kg
	Sewage treatment plant	0,9 mg/l
	Fresh water sediment	0,024 mg/kg
alpha,alpha-dimethylbenzyl hydroperoxide	Fresh water	0,003 mg/l
	Sewage treatment plant	0,35 mg/l
	Marine water	0 mg/l
	Fresh water sediment	0,023 mg/kg
	Marine sediment	0,002 mg/kg
	Soil	0,003 mg/kg
1-amino-4-hydroxy-2-phenoxyanthraquinone	Soil	43,4 mg/kg
	Fresh water	0,1 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	217 mg/kg
	Marine sediment	21,7 mg/kg

	Marine water	0,01 mg/l

8.2 Exposure controls

Engineering measures

Please take care on national and local requirements.

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection
Material : Nitrile rubber

Remarks : The glove material has to be impermeable and resistant to the product/the substance/the preparation. The exact break through time can be obtained from the protective glove producer and this has to be observed.

Skin and body protection : Protective clothing

Respiratory protection : Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus.
In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protective measures : Keep away from food, drink and animal feedingstuffs.
Instantly remove any soiled and impregnated garments.
Wash hands before breaks and immediately after handling the product.
Avoid contact with the eyes and skin.
Store protective clothing separately.

Environmental exposure controls

Air : Suppress (knock down) gases/vapours/mists with a water spray jet.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : red

Odour	:	characteristic
Odour Threshold	:	is not determined
Melting point/freezing point	:	is not determined
Boiling point/boiling range	:	is not determined
Flash point	:	113 °C
Evaporation rate	:	is not determined
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit / Upper flammability limit	:	Upper flammability limit is not determined
Lower explosion limit / Lower flammability limit	:	Lower flammability limit is not determined
Vapour pressure	:	is not determined
Relative vapour density	:	is not determined
Density	:	1,12 g/cm³
Solubility(ies)		
Water solubility	:	not miscible or difficult to mix
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	not self-igniting
Decomposition temperature	:	Not applicable
Viscosity		
Viscosity, dynamic	:	200.000 mPa.s
Explosive properties	:	Not explosive

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

No decomposition if used according to the specifications.

10.3 Possibility of hazardous reactions

Hazardous reactions : Polymerises under strong heat development

10.4 Conditions to avoid

Conditions to avoid : No further relevant information available.

10.5 Incompatible materials

Materials to avoid : No further relevant information available.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity :

Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity :

Acute toxicity estimate: > 20 mg/l
Exposure time: 4 Hours
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity :

Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

alpha,alpha-dimethylbenzyl hydroperoxide:

Acute oral toxicity	:	LD50 Oral (Rat): 382 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 220 ppm Exposure time: 4 Hours Test atmosphere: vapour
Acute dermal toxicity	:	LD50 Dermal (Rat): 500 mg/kg

triphenyl phosphite:

Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2.000 mg/kg

Skin corrosion/irritation
Not classified due to lack of data.

Serious eye damage/eye irritation
Not classified due to lack of data.

Respiratory or skin sensitisation

Skin sensitisation
May cause an allergic skin reaction.

Respiratory sensitisation
Not classified due to lack of data.

Germ cell mutagenicity
Not classified due to lack of data.

Carcinogenicity
Not classified due to lack of data.

Reproductive toxicity
Not classified due to lack of data.

STOT - single exposure
Not classified due to lack of data.

STOT - repeated exposure
Not classified due to lack of data.

Aspiration toxicity
Not classified due to lack of data.

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-hydroxyethyl methacrylate:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 213 - 242 mg/l Exposure time: 96 Hours Test Type: flow-through test

alpha,alpha-dimethylbenzyl hydroperoxide:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 3,9 mg/l Exposure time: 96 Hours Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 7 mg/l Exposure time: 24 Hours Test Type: static test

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

2-hydroxyethyl methacrylate:

Partition coefficient: n-octanol/water	:	log Pow: 0,47

acrylic acid:

Partition coefficient: n-octanol/water	:	log Pow: 0,35

12.4 Mobility in soil

Product:

Mobility	:	Medium: Soil Remarks: Do not allow product to reach ground water, water bodies or sewage system.

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 Other adverse effects

Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.
Do not dispose of waste into sewer.
Hand over to disposers of hazardous waste.
Can be deposited with household garbage after solidification following consultation with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
The generation of waste should be avoided or minimized wherever possible.
Incinerate under controlled conditions in accordance with all local and national laws and regulations.
Disposal must be made according to official regulations.

Contaminated packaging : Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

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 75, 3 2-hydroxyethyl methacrylate 3-trimethoxysilylpropyl methacrylate trisodium nitrilotriacetate propan-2-ol triphenyl phosphite cumene tetrasodium ethylenediaminetetraacetate (>10 - 24% in a non hazardous diluent) octamethylcyclotetrasiloxane formaldehyde (Number on list 72, 28)
REACH - Candidate List of Substances of Very High Concern for Authorisation (SVHC, 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
RoHS: 2011/65/EU, Restriction of Hazardous Substances	:	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
Council Regulation (EC) No 273/2004 on drug precursors	:	Not applicable
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 1,87 %

The components of this product are reported in the following inventories:

NZIoC	:	On the inventory, or in compliance with the inventory
REACH	:	On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Full text of H-Statements

H226	:	Flammable liquid and vapour.
H242	:	Heating may cause a fire.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H311	:	Toxic in contact with skin.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.

H319	:	Causes serious eye irritation.
H331	:	Toxic if inhaled.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Org. Perox.	:	Organic peroxides
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
2017/164/EU	:	Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
2017/164/EU / STEL	:	Short term exposure limit
2017/164/EU / TWA	:	Limit Value - eight hours
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

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 - Interna-

tional 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Modified data compared to the previous version
The following sections have been updated:
- Section 3
- Section 12
- Section 15
- Section 16

Contact Point : Prepared by: Global Regulatory Department
info-rubix-engineering@rubix.com

Classification of the mixture:		**Classification procedure:**
Skin Sens. 1	H317	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN