

	<b>SAFETY DATA SHEET</b>	Page : 1 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> (Original SDS: US-029-0302Q 2019)

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

### 1.1. Product identifier

Product form : Mixture  
 Trade name : Bellows adhesive  
 UFI : MMRV-N0C9-H001-K538  
 Product code : 8M0133959  
 Document no. : 766-01-0024S  
 (Original SDS: US-029-0302Q 2019)

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

#### 1.2.1. Relevant identified uses

Intended for general public  
 Main use category : Industrial use, Professional use, Consumer use  
 Use of the substance/mixture : Adhesives, sealants

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Brunswick Marine EMEA  
 Parc industriel de Petit-Rechain, Avenue Mercury 8  
 4800 Verviers - Belgium  
 T +32 (0)87 32 32 11  
[bme.compliance@brunswick.com](mailto:bme.compliance@brunswick.com)

### 1.4. Emergency telephone number

Emergency number : 0032 3 575 55 55  
 This telephone number is available 24 hours per day, 7 days per week.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flam. Liq. 2 H225  
 Eye Irrit. 2 H319  
 STOT SE 3 H336  
 Aquatic Chronic 3 H412

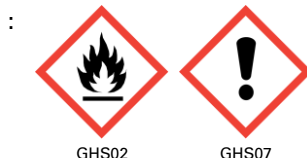
Full text of H- and EUH-statements: see section 16

	<b>SAFETY DATA SHEET</b>	Page : 2 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word

: Danger

Contains

: acetone; propan-2-one; propanone

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

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

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

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

Extra phrases

: EUH066 - Repeated exposure may cause skin dryness or cracking.

Child-resistant fastening

: Not applicable

Tactile warning

: Applicable

## 2.3. Other hazards

Other hazards

: Vapours can form explosive mixtures with air. Results of PBT and vPvB assessment : Not applicable.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

	<b>SAFETY DATA SHEET</b>	Page : 3 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone; propan-2-one; propanone	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index) 606-001-00-8	40 – 70	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Salicylic acid	(CAS-No.) 69-72-7 (EC-No.) 200-712-3 (EC Index) 607-732-00-5	< 3	Repr. 2, H361d Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
zinc oxide	(CAS-No.) 1314-13-2 (EC-No.) 215-222-5 (EC Index) 030-013-00-7	< 2,5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Get medical advice/attention.

##### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: May cause drowsiness or dizziness. The following symptoms may occur: Irritation. Headache. Pain. Coughing, sneezes.
Skin contact	: The following symptoms may occur: Repeated exposure may cause skin dryness or cracking.
Eyes contact	: Causes serious eye irritation. The following symptoms may occur: erythema (redness). Swelling of tissue. Pain. Tears. Corneal opacity. Impairment of vision.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

##### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media	: carbon dioxide (CO <sub>2</sub> ), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	: Strong water jet.

	<b>SAFETY DATA SHEET</b>	Page : 4 / 21
		Revision nr : 2.0
		Issue date : 22/03/2022
	<b>Bellows adhesive</b>	Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

## **5.2. Special hazards arising from the substance or mixture**

Specific hazards	: Highly flammable liquid and vapour. Heating will cause a rise in pressure with a risk of bursting. Vapours may form explosive mixture with air. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO <sub>2</sub> ). Nitrogen oxides. Hydrocarbons.

## **5.3. Advice for firefighters**

Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **6.1.1. For non-emergency personnel**

For non-emergency personnel	: Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.
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#### **6.1.2. For emergency responders**

For emergency responders	: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.
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### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

### **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up	: Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation.
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### **6.4. Reference to other sections**

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

	<b>SAFETY DATA SHEET</b>	Page : 5 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.
Hygiene measures	: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Storage of flammable liquids. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage. Take precautionary measures against static discharge.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Special rules on packaging	: Tactile warning. Containers which are opened should be properly resealed and kept upright to prevent leakage.
Packaging materials	: Keep only in the original container.

### 7.3. Specific end use(s)

Adhesives, sealants.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

acetone; propan-2-one; propanone (67-64-1)		
EU	IOEL TWA	1210 mg/m <sup>3</sup> (Directive 2000/39/EC)
EU	IOEL TWA [ppm]	500 ppm (Directive 2000/39/EC)
Austria	MAK (OEL TWA)	1200 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) [ppm]	500 ppm
Austria	MAK (OEL STEL)	4800 mg/m <sup>3</sup>
Austria	MAK (OEL STEL) [ppm]	2000 ppm
Belgium	OEL TWA	1210 mg/m <sup>3</sup>
Belgium	OEL TWA [ppm]	500 ppm
Belgium	OEL STEL	2420 mg/m <sup>3</sup>
Belgium	OEL STEL [ppm]	1000 ppm
Bulgaria	OEL TWA	600 mg/m <sup>3</sup>
Bulgaria	OEL STEL	1400 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [1]	1210 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [2]	500 ppm

	<b>SAFETY DATA SHEET</b>	Page : 6 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

acetone; propan-2-one; propanone (67-64-1)		
Croatia	Acetone (blood, End of shift): 20 mg/l (0,34 mmol/l) Acetone (Urine, End of shift): 39 mmol/mol Creatinine	
Cyprus	OEL TWA	1210 mg/m <sup>3</sup>
Cyprus	OEL TWA [ppm]	500 ppm
Czech Republic	PEL (OEL TWA)	800 mg/m <sup>3</sup>
Denmark	OEL TWA [1]	600 mg/m <sup>3</sup>
Denmark	OEL TWA [2]	250 ppm
Estonia	OEL TWA	1210 mg/m <sup>3</sup>
Estonia	OEL TWA [ppm]	500 ppm
Finland	HTP (OEL TWA) [1]	1200 mg/m <sup>3</sup>
Finland	HTP (OEL TWA) [2]	500 ppm
Finland	HTP (OEL STEL)	1500 mg/m <sup>3</sup>
Finland	HTP (OEL STEL) [ppm]	630 ppm
France	VME (OEL TWA)	1210 mg/m <sup>3</sup> (restrictive limit)
France	VME (OEL TWA) [ppm]	500 ppm (restrictive limit)
France	VLE (OEL C/STEL)	2420 mg/m <sup>3</sup> (restrictive limit)
France	VLE (OEL C/STEL) [ppm]	1000 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900)	1200 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	500 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Biological limit value	80 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift
Gibraltar	OEL TWA	1210 mg/m <sup>3</sup>
Gibraltar	OEL TWA [ppm]	500 ppm
Greece	OEL TWA	1780 mg/m <sup>3</sup>
Greece	OEL STEL	3560 mg/m <sup>3</sup>
Hungary	AK (OEL TWA)	1210 mg/m <sup>3</sup>
Ireland	OEL TWA [1]	1210 mg/m <sup>3</sup>
Ireland	OEL TWA [2]	500 ppm
Ireland	OEL STEL	3630 mg/m <sup>3</sup> (calculated)
Ireland	OEL STEL [ppm]	1500 ppm (calculated)
Italy	OEL TWA	1210 mg/m <sup>3</sup>
Italy	OEL TWA [ppm]	500 ppm
Latvia	OEL TWA	1210 mg/m <sup>3</sup>
Latvia	OEL TWA [ppm]	500 ppm
Lithuania	IPRV (OEL TWA)	1210 mg/m <sup>3</sup>
Lithuania	IPRV (OEL TWA) [ppm]	500 ppm
Lithuania	TPRV (OEL STEL)	2420 mg/m <sup>3</sup>

	<b>SAFETY DATA SHEET</b>	Page : 7 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

acetone; propan-2-one; propanone (67-64-1)		
Lithuania	TPRV (OEL STEL) [ppm]	1000 ppm
Luxembourg	OEL TWA	1210 mg/m <sup>3</sup>
Luxembourg	OEL TWA [ppm]	500 ppm
Malta	OEL TWA	1210 mg/m <sup>3</sup>
Malta	OEL TWA [ppm]	500 ppm
Netherlands	TGG-8u (OEL TWA)	1210 mg/m <sup>3</sup>
Netherlands	TGG-15min (OEL STEL)	2420 mg/m <sup>3</sup>
Poland	NDS (OEL TWA)	600 mg/m <sup>3</sup>
Poland	NDSch (OEL STEL)	1800 mg/m <sup>3</sup>
Portugal	OEL TWA	1210 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA [ppm]	500 ppm (indicative limit value)
Portugal	OEL STEL [ppm]	750 ppm
Romania	OEL TWA	1210 mg/m <sup>3</sup>
Romania	OEL TWA [ppm]	500 ppm
Slovakia	NPHV (OEL TWA) [1]	1210 mg/m <sup>3</sup>
Slovakia	NPHV (OEL TWA) [2]	500 ppm
Slovenia	OEL TWA	1210 mg/m <sup>3</sup>
Slovenia	OEL TWA [ppm]	500 ppm
Slovenia	OEL STEL	2420 mg/m <sup>3</sup>
Slovenia	OEL STEL [ppm]	1000 ppm
Spain	VLA-ED (OEL TWA) [1]	1210 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	500 ppm (indicative limit value)
Sweden	NGV (OEL TWA)	600 mg/m <sup>3</sup>
Sweden	NGV (OEL TWA) [ppm]	250 ppm
Sweden	KTV (OEL STEL)	1200 mg/m <sup>3</sup>
Sweden	KTV (OEL STEL) [ppm]	500 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	1210 mg/m <sup>3</sup>
United Kingdom	WEL TWA (OEL TWA) [2]	500 ppm
United Kingdom	WEL STEL (OEL STEL)	3620 mg/m <sup>3</sup>
United Kingdom	WEL STEL (OEL STEL) [ppm]	1500 ppm
Norway	Grenseverdi (OEL TWA) [1]	295 mg/m <sup>3</sup> (Referanser (lover/forskrifter): FOR-2011-12-06 nr 1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2016-12-22 nr 1860)).
Norway	Grenseverdi (OEL TWA) [2]	125 ppm (Referanser (lover/forskrifter): FOR-2011-12-06 nr 1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2016-12-22 nr 1860)).
Norway	Korttidsverdi (OEL STEL)	368,75 mg/m <sup>3</sup> (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	156,25 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	1200 mg/m <sup>3</sup>
Switzerland	MAK (OEL TWA) [2]	500 ppm

	SAFETY DATA SHEET	Page : 8 / 21
		Revision nr : 2.0
		Issue date : 22/03/2022
	Bellows adhesive	Supersedes : 25/03/2015
		766-01-0024S (Original SDS: US-029-0302Q 2019)

<b>acetone; propan-2-one; propanone (67-64-1)</b>		
Switzerland	KZGW (OEL STEL)	2400 mg/m <sup>3</sup>
Switzerland	KZGW (OEL STEL) [ppm]	1000 ppm
Australia	OES TWA [1]	1185 mg/m <sup>3</sup>
Australia	OES TWA [2]	500 ppm
Australia	OES STEL	2375 mg/m <sup>3</sup>
Australia	OES STEL [ppm]	1000 ppm
Canada (Quebec)	VECD (OEL STEL)	2380 mg/m <sup>3</sup>
Canada (Quebec)	VECD (OEL STEL) [ppm]	1000 ppm
Canada (Quebec)	VEMP (OEL TWA)	1190 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (OEL TWA) [ppm]	500 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	250 ppm
USA - ACGIH	ACGIH OEL STEL [ppm]	500 ppm
USA - IDLH	IDLH [ppm]	2500 ppm (10% LEL)
USA - NIOSH	NIOSH REL TWA	590 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL TWA [ppm]	250 ppm
USA - OSHA	OSHA PEL TWA [1]	2400 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL TWA [2]	1000 ppm
<b>zinc oxide (1314-13-2)</b>		
Austria	MAK (OEL TWA)	5 mg/m <sup>3</sup> (respirable fraction, smoke)
Belgium	OEL TWA	10 mg/m <sup>3</sup> (dust)
		5 mg/m <sup>3</sup> (fume)
		5 mg/m <sup>3</sup> (aerosol and vapor)
Belgium	OEL STEL	10 mg/m <sup>3</sup> (fume)
		10 mg/m <sup>3</sup> (aerosol and vapor)
Bulgaria	OEL TWA	5 mg/m <sup>3</sup>
Bulgaria	OEL STEL	10 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [1]	5 mg/m <sup>3</sup>
Croatia	KGVI (OEL STEL)	10 mg/m <sup>3</sup>
Czech Republic	PEL (OEL TWA)	2 mg/m <sup>3</sup>
Denmark	OEL TWA [1]	4 mg/m <sup>3</sup>
		4 mg/m <sup>3</sup> (fume)
Estonia	OEL TWA	5 mg/m <sup>3</sup>
Finland	HTP (OEL TWA) [1]	2 mg/m <sup>3</sup> (fume)
Finland	HTP (OEL STEL)	10 mg/m <sup>3</sup> (fume)
France	VME (OEL TWA)	5 mg/m <sup>3</sup> (fume)
		10 mg/m <sup>3</sup> (dust)
Greece	OEL TWA	5 mg/m <sup>3</sup> (fume)
Greece	OEL STEL	10 mg/m <sup>3</sup> (fume)
Hungary	AK (OEL TWA)	5 mg/m <sup>3</sup> (respirable dust)
Hungary	CK (OEL STEL)	20 mg/m <sup>3</sup> (respirable dust)
Ireland	OEL TWA [1]	2 mg/m <sup>3</sup> (fume; respirable fraction)
Ireland	OEL STEL	10 mg/m <sup>3</sup> (fume; respirable)



	<b>SAFETY DATA SHEET</b>	Page : 9 / 21
		Revision nr : 2.0
		Issue date : 22/03/2022
	<b>Bellows adhesive</b>	Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

zinc oxide (1314-13-2)		
Latvia	OEL TWA	0,5 mg/m <sup>3</sup>
Lithuania	IPRV (OEL TWA)	5 mg/m <sup>3</sup>
Poland	NDS (OEL TWA)	5 mg/m <sup>3</sup> (inhalable fraction)
Poland	NDSch (OEL STEL)	10 mg/m <sup>3</sup> (inhalable fraction)
Portugal	OEL TWA	2 mg/m <sup>3</sup> (respirable fraction)
Portugal	OEL STEL	10 mg/m <sup>3</sup> (respirable fraction)
Romania	OEL TWA	5 mg/m <sup>3</sup> (fume)
Romania	OEL STEL	10 mg/m <sup>3</sup> (fume)
Slovakia	NPHV (OEL TWA) [1]	1 mg/m <sup>3</sup> (fume)
Slovakia	NPHV (OEL C)	1 mg/m <sup>3</sup>
Slovenia	OEL TWA	5 mg/m <sup>3</sup> (respirable fraction, fume)
Slovenia	OEL STEL	20 mg/m <sup>3</sup> (respirable fraction, fume)
Spain	VLA-ED (OEL TWA) [1]	2 mg/m <sup>3</sup> (respirable fraction)
Spain	VLA-EC (OEL STEL)	10 mg/m <sup>3</sup>
Sweden	NGV (OEL TWA)	5 mg/m <sup>3</sup> (total dust)
Norway	Grenseverdi (OEL TWA) [1]	5 mg/m <sup>3</sup>
Norway	Korttidsverdi (OEL STEL)	10 mg/m <sup>3</sup> (value calculated)
Switzerland	MAK (OEL TWA) [1]	3 mg/m <sup>3</sup> (respirable dust, smoke)
Switzerland	KZGW (OEL STEL)	3 mg/m <sup>3</sup> (respirable dust, smoke)
Australia	OES TWA [1]	10 mg/m <sup>3</sup> (containing no asbestos and <1% crystalline silica-inhalable dust) 5 mg/m <sup>3</sup> (fume)
Australia	OES STEL	10 mg/m <sup>3</sup> (fume)
Canada (Quebec)	VECD (OEL STEL)	10 mg/m <sup>3</sup> (respirable dust)
Canada (Quebec)	VEMP (OEL TWA)	2 mg/m <sup>3</sup> (respirable dust)
USA - ACGIH	ACGIH OEL TWA	2 mg/m <sup>3</sup> (respirable particulate matter)
USA - ACGIH	ACGIH OEL STEL	10 mg/m <sup>3</sup> (respirable particulate matter)
USA - IDLH	IDLH	500 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL TWA	5 mg/m <sup>3</sup> (dust and fume)
USA - NIOSH	NIOSH REL STEL	10 mg/m <sup>3</sup> (fume)
USA - NIOSH	NIOSH REL C	15 mg/m <sup>3</sup> (dust)
USA - OSHA	OSHA PEL TWA [1]	5 mg/m <sup>3</sup> (fume) 15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)

Additional information

: Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

## 8.2. Exposure controls

Engineering measure(s)

: Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling. Use only outdoors or in a well-ventilated area. Take precautionary measures against static discharges. Ensure equipment is adequately earthed. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

	<b>SAFETY DATA SHEET</b>	Page : 10 / 21
		Revision nr : 2.0
		Issue date : 22/03/2022
	<b>Bellows adhesive</b>	Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . Suitable material: Butyl caoutchouc (butyl rubber). Breakthrough time : Not determined. Thickness : Not determined. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	: Use suitable eye protection (EN166): goggles
Body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: ABEK (EN14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Avoid release to the environment. Comply with applicable Community environmental protection legislation.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: dark brown.
Odour	: Solvent. (Sharp).
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: Not applicable
Freezing point	: No data available
Initial boiling point and boiling range	: $\geq 56$ °C
Flash point	: -20 °C (closed cup)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable,liquid
Vapour pressure	: $\leq 185$ mmHg (20 °C)
Vapour density	: 2 (Air = 1.0)
Relative density	: 0,91
Density	: 0,91 mg/l
Solubility	: Water: < 10 %
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: 1500 – 3200 cPs (27 °C)
Dynamic viscosity	: No data available

	<b>SAFETY DATA SHEET</b>	Page : 11 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: 2,6 – 12,8 %
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

## **9.2. Other information**

### **9.2.1. Information with regard to physical hazard classes**

No additional information available

### **9.2.2. Other safety characteristics**

VOC content : 569 g/l

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Highly flammable liquid and vapour. Reference to other sections: 10.4 & 10.5.

### **10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

### **10.3. Possibility of hazardous reactions**

Vapours may form explosive mixture with air. No dangerous reactions known under normal conditions of use.

### **10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See Section 7 for information on safe handling.

### **10.5. Incompatible materials**

oxidising substances. See Section 7 for information on safe handling.

### **10.6. Hazardous decomposition products**

Reference to other sections 5.2.

## **SECTION 11: Toxicological information**

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

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

	<b>SAFETY DATA SHEET</b>		Page : 12 / 21
			Revision nr : 2.0
	<b>Bellows adhesive</b>		Issue date : 22/03/2022
			Supersedes : 25/03/2015
			<b>766-01-0024S</b> (Original SDS: US-029-0302Q 2019)

<b>acetone; propan-2-one; propanone (67-64-1)</b>	
LD50/oral/rat	5800 mg/kg
LD50/dermal/rat	> 10000 mg/kg
LD50/dermal/rabbit	> 15700 mg/kg
LC50/inhalation/4h/rat	50100 mg/m <sup>3</sup> (Exposure time: 8 h)
LC50 Inhalation - Rat (Vapours)	76 mg/l/4h

<b>Salicylic acid (69-72-7)</b>	
LD50/oral/rat	891 mg/kg
LD50/dermal/rat	> 2 g/kg
LC50/inhalation/4h/rat	> 900 mg/m <sup>3</sup> (Exposure time: 1 h)

<b>zinc oxide (1314-13-2)</b>	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LC50/inhalation/4h/rat	> 5700 mg/l/4h
LD50, mouse, oral	7950 mg/kg
LC50, mouse, Inhalation	2500 mg/m <sup>3</sup>

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

<b>Bellows adhesive</b>	
Kinematic viscosity	1500 – 3200 mm <sup>2</sup> /s (27 °C)

Other information	: Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4. Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.
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## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %
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	<b>SAFETY DATA SHEET</b>	Page : 13 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

### 11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4, Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

#### acetone; propan-2-one; propanone (67-64-1)

LC50 - Fish [1]	4,74 – 6,33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC50 - Fish [2]	6210 – 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	10294 – 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	12600 – 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)

#### Salicylic acid (69-72-7)

EC50 - Crustacea [1]	870 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
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#### zinc oxide (1314-13-2)

LC50 - Fish [1]	1,55 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
LC50 - Fish [2]	1,793 mg/l (Danio Rerio)
EC50 - Crustacea [1]	2,6 mg/l (Daphnia Magna)
EC50 72h - Algae [1]	0,136 mg/l (Pseudokirchnerella subcapitata)
NOEC (additional information)	NOEC, Fish 101ug/L (M.bahia)

### 12.2. Persistence and degradability

#### Bellows adhesive

Persistence and degradability	No additional information available.
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#### acetone; propan-2-one; propanone (67-64-1)

Biodegradation	78 % (28 days)
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#### zinc oxide (1314-13-2)

Persistence and degradability	Not applicable, inorganic compounds.
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### 12.3. Bioaccumulative potential

#### Bellows adhesive

Partition coefficient n-octanol/water	No data available
---------------------------------------	-------------------

	SAFETY DATA SHEET	Page : 14 / 21
		Revision nr : 2.0
		Issue date : 22/03/2022
	Bellows adhesive	Supersedes : 25/03/2015
		766-01-0024S (Original SDS: US-029-0302Q 2019)

Bioaccumulative potential	No additional information available.
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<b>acetone; propan-2-one; propanone (67-64-1)</b>	
BCF - Fish [1]	0,69
Partition coefficient n-octanol/water	-0,24

<b>Salicylic acid (69-72-7)</b>	
BCF - Fish [1]	≥ 1000
Partition coefficient n-octanol/water	0 – 2,26 (at 37 °C)

#### 12.4. Mobility in soil

<b>Bellows adhesive</b>	
Mobility in soil	No data available
Ecology - soil	No data available.

#### 12.5. Results of PBT and vPvB assessment

<b>Bellows adhesive</b>	
Results of PBT assessment	Not applicable

#### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable

#### 12.7. Other adverse effects

Other adverse effects : No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods






Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

	SAFETY DATA SHEET		Page : 15 / 21
			Revision nr : 2.0
			Issue date : 22/03/2022
	Bellows adhesive		Supersedes : 25/03/2015
			766-01-0024S (Original SDS: US-029-0302Q 2019)

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
1133	1133	1133	1133	1133
<b>14.2. UN proper shipping name</b>				
ADHESIVES	ADHESIVES	Adhesives	ADHESIVES	ADHESIVES
<b>Transport document description</b>				
UN 1133 ADHESIVES, 3, II, (D/E)	UN 1133 ADHESIVES, 3, II	UN 1133 Adhesives, 3, II	UN 1133 ADHESIVES, 3, II	UN 1133 ADHESIVES, 3, II
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

## 14.6. Special precautions for user

Special precautions for user : No data available

### - Overland transport

Classification code (ADR) : F1  
 Special provisions : 640D  
 Limited quantities (ADR) : 5I  
 Excepted quantities (ADR) : E2  
 Packing instructions (ADR) : P001, IBC02, R001  
 Special packing provisions (ADR) : PP1  
 Mixed packing provisions (ADR) : MP19  
 Portable tank and bulk container instructions (ADR) : T4  
 Portable tank and bulk container special provisions (ADR) : TP1, TP8  
 Tank code (ADR) : LGBF  
 Vehicle for tank carriage : FL  
 Transport category (ADR) : 2  
 Special provisions for carriage - Operation (ADR) : S2, S20  
 Hazard identification number (Kemler No.) : 33

	<b>SAFETY DATA SHEET</b>	Page : 16 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

Orange plates



Tunnel restriction code

: D/E

EAC code

: •3YE

#### - Transport by sea

Limited quantities (IMDG)

: 5 L

Excepted quantities (IMDG)

: E2

Packing instructions (IMDG)

: P001

Special packing provisions (IMDG)

: PP1

IBC packing instructions (IMDG)

: IBC02

Tank instructions (IMDG)

: T4

Tank special provisions (IMDG)

: TP1, TP8

EmS-No. (Fire)

: F-E

EmS-No. (Spillage)

: S-D

Stowage category (IMDG)

: B

Properties and observations (IMDG)

: Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.

#### - Air transport

PCA Excepted quantities (IATA)

: E2

PCA Limited quantities (IATA)

: Y341

PCA limited quantity max net quantity (IATA)

: 1L

PCA packing instructions (IATA)

: 353

PCA max net quantity (IATA)

: 5L

CAO packing instructions (IATA)

: 364

CAO max net quantity (IATA)

: 60L

Special provisions (IATA)

: A3

ERG code (IATA)

: 3L

#### - Inland waterway transport

Classification code (ADN)

: F1

Special provisions (ADN)

: 640D

Limited quantities (ADN)

: 5 L

Excepted quantities (ADN)

: E2

Equipment required (ADN)

: PP, EX, A

Ventilation (ADN)

: VE01

Number of blue cones/lights (ADN)

: 1

#### - Rail transport

Classification code (RID)

: F1

Special provisions (RID)

: 640D

Limited quantities (RID)

: 5L

Excepted quantities (RID)

: E2



	<b>SAFETY DATA SHEET</b>	Page : 17 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

Packing instructions (RID) : P001, IBC02, R001  
 Special packing provisions (RID) : PP1  
 Mixed packing provisions (RID) : MP19  
 Portable tank and bulk container instructions (RID) : T4  
 Portable tank and bulk container special provisions (RID) : TP1, TP8  
 Tank codes for RID tanks (RID) : LGBF  
 Transport category (RID) : 2  
 Colis express (express parcels) (RID) : CE7  
 Hazard identification number (RID) : 33

#### **14.7. Maritime transport in bulk according to IMO instruments**

Code: IBC : No data available.

### **SECTION 15: Regulatory information**

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

##### **15.1.1. EU-Regulations**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Bellows adhesive ; acetone; propan-2-one; propanone
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Bellows adhesive ; acetone; propan-2-one; propanone
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Bellows adhesive
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	acetone; propan-2-one; propanone

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 569 g/l

##### **15.1.2. National regulations**

###### **France**

This safety datasheet has been :  
 prepared according to French  
 legislation.

	<b>SAFETY DATA SHEET</b>		Page : 18 / 21
			Revision nr : 2.0
	<b>Bellows adhesive</b>		Issue date : 22/03/2022
			Supersedes : 25/03/2015
			<b>766-01-0024S</b> (Original SDS: US-029-0302Q 2019)

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
4331.text	Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :		
4331.1	1. Supérieure ou égale à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	A	2
4331.2	2. Supérieure ou égale à 100 t mais inférieure à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	E	
4331.3	3. Supérieure ou égale à 50 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	DC	

#### Germany

Regulatory reference : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

German storage class (LGK) : LGK 3 - Flammable liquids

Hazardous Incident Ordinance (12. BlmSchV) : Listed in the 12. BlmSchV (Annex I) under: 1.2.5.3  
Quantity threshold for operational area under § 1 para. 1

- Sentence 1: 5000000 kg
- Sentence 2: 50000000 kg

This safety datasheet has been :  
prepared according to German legislation.

#### Netherlands

Waterbezwaarlijkheid : A (3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : Salicylic acid is listed

This safety datasheet has been :  
prepared according to Dutch legislation.

#### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### Norway

	<b>SAFETY DATA SHEET</b>		Page : 19 / 21
			Revision nr : 2.0
	<b>Bellows adhesive</b>		Issue date : 22/03/2022
			Supersedes : 25/03/2015
			<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

This safety datasheet has been prepared according to Norwegian legislation.

: FOR 2002-07-16 nr 1139: Forskrift om klassifisering, merking mv. av farlige kjemikalier; Forskrift om klassifisering, merking og emballering av stoffer og stoffblandinger (CLP); FOR 2008-05-30 nr 516: Forskrift om registrering, vurdering, godkjenning og begrensning av kjemikalier (REACH-forskriften)

## 15.2. Chemical safety assessment

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

## SECTION 16: Other information

Indication of changes:

Safety datasheet sections which have been updated : 1,16.

1.1	Product code	Modified	
1.1	Document no.	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.3	ED text	Added	
3	Composition/information on ingredients	Modified	
7.2	Heat and ignition sources	Added	
7.2	Special rules on packaging	Added	
9.2	Information with regard to physical hazard classes	Added	
9.2	Other safety characteristics	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.1	Environmental properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
14.7	Maritime transport in bulk according to IMO instruments	Added	
15.1	Installations classées	Added	
15.1	Hazardous Incident Ordinance (12. BImSchV)	Added	
15.1	German storage class (LGK)	Added	

Abbreviations and acronyms:

ABM = Algemene beoordelingsmethodiek
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	<b>SAFETY DATA SHEET</b>	Page : 20 / 21
		Revision nr : 2.0
	<b>Bellows adhesive</b>	Issue date : 22/03/2022
		Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Training advice : Training staff on good practice.

Other information : Classification - Assessment method: CLP Calculation method (Article 9).

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.

	<b>SAFETY DATA SHEET</b>	Page : 21 / 21
		Revision nr : 2.0
		Issue date : 22/03/2022
	<b>Bellows adhesive</b>	Supersedes : 25/03/2015
		<b>766-01-0024S</b> <b>(Original SDS: US-029-0302Q 2019)</b>

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
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.
Repr. 2	Reproductive toxicity, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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