

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended

Ultraflex™ 4822 N

Version	Revision Date:	SDS Number:	Date of last issue: 30.07.2024
4.0	13.11.2024	100000029931	Date of first issue: 20.02.2024
	Print Date:		
	15.10.2025		

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product name : Ultraflex™ 4822 N

Product code : 000000000010015592

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

Use of the Sub-stance/Mixture : Solvent based adhesive

Recommended restrictions on use : For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company : H.B. Fuller, Isar-Rakoll, S.A.

Address : Estrada Nacional 13
PT-4486-851 Mindelo - Vila do Conde
+351 229 288 200

E-mail address of person responsible for the SDS : EU-MSDS@hbfuller.com

1.4 Emergency telephone number

Emergency telephone number : In case of poisoning:
GBK-EMTEL International
Tel.(24h):+49(0)6132/84463 (all languages)

In case of transport accidents:
Tel.(24h): (001) 352 323 3500 (Infotrac - Contract ID: 90373 / GBK)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single ex-	H336: May cause drowsiness or dizziness.

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posure, Category 3, Central nervous system

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Danger

Hazard statements : 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.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing mist or vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

acetone
ethyl acetate

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.

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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.

SECTION 3: Composition/information on ingredients
3.2 Mixtures
Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49-0000	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 70 - < 90
ethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46-0000	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 1 - < 10
Quaternary ammonium compounds, C12-14 (even-numbered)-alkylethyldimethyl, ethyl sulphates	Not Assigned 01-2119977130-42	Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 0,25 - < 1

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures**

- | | | |
|-------------------------|---|---|
| General advice | : | If on clothes, remove clothes.
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 | : | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Call a physician if irritation develops or persists. |
| In case of eye contact | : | Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists. |
| If swallowed | : | Do NOT induce vomiting.
If accidentally swallowed obtain immediate medical attention.
Rinse mouth with water.
If conscious, drink fresh water.
If symptoms persist, call a physician. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|-------|---|---|
| Risks | : | Causes serious eye irritation.
May cause drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking. |
|-------|---|---|

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
Foam
Dry powder
Carbon dioxide (CO ₂) |
|------------------------------|---|--|

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Unsuitable extinguishing media : Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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 : Remove all sources of ignition.
Use personal protective equipment.
Use breathing protection against the effects of fumes/dust/aerosol.
Evacuate personnel to safe areas.
Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Prevent the material from reaching sewage system, holes and cellars.

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).
Non-sparking tools should be used.
Ensure adequate ventilation.
Send for recovery or disposal in suitable containers.

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**

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Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Avoid formation of dust and aerosols. Handle with care. Keep eye wash bottle available on working place. Avoid release to the environment. Take note of emission threshold. Use solvent-proof equipment. Ensure that suitable extractors are available on processing machines. Keep out of reach of children. Take precautionary measures against static discharges. Use only with adequate ventilation.
Advice on protection against fire and explosion	:	Keep product and empty container away from heat and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge. May form explosive mixtures in air. Highly volatile, flammable constituents are released during processing. 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	:	Use explosion-proof equipment. Keep tightly closed in a dry, cool and well-ventilated place. Do not freeze.
Further information on storage conditions	:	Store in a cool place. Heat will increase pressure and may lead to the container exploding.
Advice on common storage	:	Do not store together with oxidizing and self-igniting products.

7.3 Specific end use(s)

Specific use(s)	:	No further relevant information available.
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SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
acetone	67-64-1	TWA	500 ppm 1.210 mg/m3	2000/39/EC
Further information: Indicative				
		TWA	500 ppm	MT OEL

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			1.210 mg/m3	
ethyl acetate	141-78-6	STEL	400 ppm 1.468 mg/m3	2017/164/EU
Further information: Indicative				
		TWA	200 ppm 734 mg/m3	2017/164/EU
Further information: Indicative				
		TWA	200 ppm 734 mg/m3	MT OEL
		STEL	400 ppm 1.468 mg/m3	MT OEL

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

Substance name	End Use	Exposure routes	Potential health effects	Value
acetone	Workers	Inhalation	Local, short-term	2420 mg/m3
	Workers	Inhalation	Systemic, long-term	1210 mg/m3
	Workers	Eye contact	Local effects	
	Workers	Dermal	Systemic, long-term	186 mg/kg
ethyl acetate	Workers	Eye contact	Local effects	
	Workers	Inhalation	Systemic, short-term	1468 mg/m3
	Workers	Inhalation	Systemic, long-term	734 mg/m3
	Workers	Inhalation	Local, short-term	1468 mg/m3
	Workers	Inhalation	Local, long-term	734 mg/m3
	Workers	Dermal	Systemic, long-term	63 mg/kg

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

Substance name	Environmental Compartment	Value
acetone	Soil	29,5 mg/kg
	Sewage treatment plant	100 mg/l
	Fresh water	10,6 mg/l
	Fresh water sediment	30,4 mg/kg
	Marine water	1,06 mg/l
	Marine sediment	3,04 mg/kg
ethyl acetate	Soil	0,148 mg/kg
	Predator	0,2 g/kg
	Fresh water sediment	1,15 mg/kg
	Fresh water	0,24 mg/l
	Sewage treatment plant	650 mg/l
	Marine water	0,024 mg/l
	Marine sediment	0,115 mg/kg

8.2 Exposure controls
Engineering measures

Please take care on national and local requirements.

Personal protective equipment

Eye protection : Tightly fitting safety goggles or equipment with better protec-

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tion

Hand protection
Material : Solvent-resistant gloves

Remarks : Direct contact with the product must be avoided by organizational measures.

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.
The gloves need to be disposed after the penetration time and replaced by new ones.
Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

For the permanent contact gloves made of the following materials are suitable:

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

As protection from splashes gloves made of the following materials are suitable:

Nitril (minimum thickness 0.12 mm), Disposable gloves with long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

Skin and body protection : Protective clothing

Respiratory protection : Use respiratory protection unless adequate risk management

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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.
Ensure that suitable extractors are available on processing machines.

Filter type	:	Organic vapour type or equipment with better protection (A)
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. Provide adequate ventilation.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state	:	liquid
Colour	:	colourless
Odour	:	solvent-like
Odour Threshold	:	is not determined
Melting point/freezing point	:	is not determined
Flash point	:	-18 °C
Auto-ignition temperature	:	is not determined
Decomposition temperature	:	Not applicable
pH	:	substance/mixture is non-polar/aprotic
Viscosity		
Viscosity, dynamic	:	3.200 mPa.s (20 °C)
Viscosity, kinematic	:	> 20,5 mm ² /s (40 °C)
Solubility(ies)		

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Water solubility : not miscible or difficult to mix

Partition coefficient: n-octanol/water : no data available

Density : 0,83 g/cm³

Relative vapour density : is not determined

9.2 Other information

Explosives : Product is not explosive. However, formation of explosive vapour/air mixtures is possible.

Evaporation rate : is not determined

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 : Develops readily flammable vapours/fumes.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No further relevant information available.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

Product:

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

Components:**ethyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 5.620 mg/kg

Acute inhalation toxicity : LC50 (Rat): 22,5 mg/l
Exposure time: 4 Hours
Test atmosphere: Inhalation

Acute dermal toxicity : LD50 Dermal (Rabbit): > 20.000 mg/kg

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation**Skin sensitisation**

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

Respiratory sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT - single exposure

May cause drowsiness or dizziness.

STOT - repeated exposure

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

Aspiration toxicity

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

11.2 Information on other hazards**Endocrine disrupting properties****Product:**

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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.

SECTION 12: Ecological information**12.1 Toxicity****Components:****ethyl acetate:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 - 250 mg/l
Exposure time: 96 Hours
Test Type: flow-through test

Quaternary ammonium compounds, C12-14 (even-numbered)-alkylethyldimethyl, ethyl sulphates:

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential**Components:****acetone:**

Partition coefficient: n-octanol/water : log Pow: -0,24

ethyl acetate:

Partition coefficient: n-octanol/water : log Pow: > 0,66 - < 0,73 (25 °C)
pH: 7
GLP: no

12.4 Mobility in soil**Product:**

Mobility : Medium: Soil

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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 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

No data available

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.
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.

These EU waste code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under section 3 of this safety datasheet is itself classified as dangerous (*).

Waste accruing during application:
08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

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Waste accruing during cleaning:

08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances

08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

Waste packaging:

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

15 01 10* packaging containing residues of or contaminated by dangerous substances.

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

SECTION 14: Transport information**14.1 UN number or ID number**

ADR : UN 1133

IMDG : UN 1133

IATA : UN 1133

14.2 UN proper shipping name

ADR : ADHESIVES

IMDG : ADHESIVES

IATA : Adhesives

14.3 Transport hazard class(es)

ADR : 3

IMDG : 3

IATA : 3

14.4 Packing group**ADR**

Packing group : II

Classification Code : F1

Hazard Identification Number : 33

Labels : 3

Tunnel restriction code : (D/E)

Remarks : (Packing group III, and Tunnel restriction code 'E', if content of packaging ≤ 450l, according to 2.2.3.1.4 ADR), This product is eligible to ship using the Limited Quantity exception when packed in inner packaging under 5 L and outer packaging up

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to 30 kg.

IMDG

Packing group	: II
Labels	: 3
EmS Code	: F-E, S-D
Remarks	: (Packing group III, if content of packaging ≤ 450l, according to 2.3.2.2 IMDG)

IATA (Cargo)

Packing instruction (cargo aircraft)	: 364
Packing instruction (LQ)	: Y341
Packing group	: II
Labels	: Flammable Liquids
Remarks	: (Packing group III, if content of packaging ≤ 100l, according to 3.3.3.1.1 IATA)

IATA_P (Passenger)

Packing instruction (passenger aircraft)	: 353
Packing instruction (LQ)	: Y341
Packing group	: II
Labels	: Flammable Liquids
Remarks	: (Packing group III, if content of packaging ≤ 30l, according to 3.3.3.1.1 IATA)

14.5 Environmental hazards**ADR**

Environmentally hazardous	: no
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IMDG

Marine pollutant	: no
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14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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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 (SVHC, Article 59) : Compliant

Regulation (EC) 2024/590 on substances that deplete the ozone layer : Compliant

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Compliant

RoHS: 2011/65/EU, Restriction of Hazardous Substances : Compliant

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 (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors : acetone

REACH - List of substances subject to authorisation (Annex XIV) : Compliant

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. : acetone (ANNEX II)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 83,43 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

AIIC	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: 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**

H225	: Highly flammable liquid and vapour.
H302	: Harmful if swallowed.
H311	: Toxic in contact with skin.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H336	: May cause drowsiness or dizziness.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
EUH066	: Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended

Ultraflex™ 4822 N

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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
Skin Corr.	: Skin corrosion
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2017/164/EU	: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
MT OEL	: Malta. Occupational Exposure Limits
2000/39/EC / TWA	: Limit Value - eight hours
2017/164/EU / STEL	: Short term exposure limit
2017/164/EU / TWA	: Limit Value - eight hours
MT OEL / TWA	: Long term exposure limit
MT OEL / STEL	: Occupational exposure limit value Short-term, 15 minute

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

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- Toxic Substances Control Act (United States); UN - United Nations; 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 1
- Section 4
- Section 5
- Section 6
- Section 7
- Section 8
- Section 10
- Section 16

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Classification of the mixture:

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

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
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.

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