

Trade name: PLIXXOPOL RF 2200PJ**Product no.:** 433**Current version :** 1.1.1, issued: 27.09.2021**Replaced version:** 1.1.0, issued: 04.08.2021**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****PLIXXOPOL RF 2200PJ****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Intermediate in the chemical industry (for the manufacture of binders or hardeners for coating materials or adhesives)

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**PLIXXENT Holding GmbH
Gasstraße 18
22761 Hamburg
Germany

Telephone no. +49 441 68099 190

e-mail productsafety@plixxent.com

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Irrit. 2; H319

Skin Irrit. 2; H315

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07

Signal word

Warning

Hazard statement(s)

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statement(s)

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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P337+P313 present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	poly(propene oxide)			
	25322-69-4 500-039-8 - -	Acute Tox. 4; H302	>= 10,00 - < 25,00	wt%
2	propylene carbonate			
	108-32-7 203-572-1 607-194-00-1 01-2119537232-48	Eye Irrit. 2; H319	< 5,00	wt%
3	benzyl dimethylamine			
	103-83-3 203-149-1 612-074-00-7 01-2119529232-48	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 3; H331 Aquatic Chronic 2; H411 Flam. Liq. 3; H226 Skin Corr. 1B; H314 Eye Dam. 1; H318	< 2,50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

3.3 Other information

Any substances in the candidate list (SVHC) in accordance with REACH regulation (EC) 1907/2006 that may be contained in the product are specified in section 15.

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

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove to fresh air, keep patient warm and at rest. In case of persisting adverse effects consult a physician.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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Carbon dioxide; Foam; Extinguishing powder; Fight larger fires with directed water spray.

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x); Hydrogen cyanide (HCN)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

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DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	propylene carbonate			108-32-7 203-572-1	
	dermal	Long term (chronic)	systemic	20	mg/kg/day
	dermal	Long term (chronic)	local	10	mg/cm ²
	inhalative	Long term (chronic)	systemic	70,56	mg/m ³
2	benzylidimethylamine			103-83-3 203-149-1	
	dermal	Long term (chronic)	systemic	1,4	mg/kg bw/day
	dermal	Short term (acut)	systemic	2,8	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	4,9	mg/m ³
	inhalative	Short term (acut)	systemic	9,9	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	propylene carbonate			108-32-7 203-572-1	
	oral	Long term (chronic)	systemic	10	mg/kg/day
	dermal	Long term (chronic)	systemic	10	mg/kg/day
	inhalative	Long term (chronic)	systemic	17,4	mg/m ³
2	benzylidimethylamine			103-83-3 203-149-1	
	inhalative	Long term (chronic)	local	10	mg/m ³
	oral	Long term (chronic)	systemic	0,25	mg/kg bw/day
	oral	Short term (acut)	systemic	0,5	mg/kg bw/day
	dermal	Long term (chronic)	systemic	0,5	mg/kg bw/day
	dermal	Short term (acut)	systemic	1	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	0,87	mg/m ³
	inhalative	Short term (acut)	systemic	1,74	

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	propylene carbonate		108-32-7 203-572-1	
	water	fresh water	0,9	mg/L
	water	marine water	0,09	mg/L
	water	Aqua intermittent	9	mg/L
	soil	-	0,81	mg/kg dry weight
	sewage treatment plant	-	7400	mg/L
2	benzylidimethylamine		103-83-3 203-149-1	
	water	fresh water	0,005	mg/L
	water	fresh water sediment	0,071	mg/kg dry weight
	water	marine water sediment	0,007	mg/kg dry weight
	water	Aqua intermittent	0,013	mg/L
	water	marine water	0	mg/L
	soil	-	0,011	mg/kg dry weight
	sewage treatment plant	-	534	mg/L

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8.2 Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Breathing apparatus: ABEK

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Check in any case suitability of protective glove for the specific workplace conditions (e.g. mechanical resistance, product compatibility, antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Replace immediately protective gloves if worn or damaged.

Appropriate Material	nitrile rubber		
Material thickness	>=	0,35	mm

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

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

State of aggregation	
liquid	
Form/Colour	
liquid	
yellowish	
Odour	
aromatic	
pH value	
Value	8,6
Boiling point / boiling range	
Value	100 °C
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	
Flash point	
Value	> 119 °C
Ignition temperature	
No data available	
Flammability	
No data available	
Lower explosion limit	
No data available	
Upper explosion limit	

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No data available

Vapour pressure

Value	24	hPa
Reference temperature	20	°C

Relative vapour density

No data available

Relative density

No data available

Density

Value	1,07	g/cm ³
Reference temperature	25	°C

Solubility in water

Comments	partially miscible
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Solubility

No data available

Partition coefficient n-octanol/water (log value)

No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
	log Pow	-041	
	Reference temperature	20	°C
	Source	ECHA	
2	benzylidimethylamine	103-83-3	203-149-1
	log Pow	1,98	
	Source	ECHA	

Viscosity

Value	450	mPa*s
Reference temperature	25	°C
Type	dynamic	

Particle characteristics

No data available

9.2 Other information**Other information**

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

None if stored, handled and transported properly.

SECTION 11: Toxicological information

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

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	PLIXXOPOL RF 2200PJ
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	PLIXXOPOL RF 2200PJ
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
LD50	>=	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	PLIXXOPOL RF 2200PJ
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists)).

Acute inhalational toxicity	
No data available	

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
2	benzylidimethylamine	103-83-3	203-149-1
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	corrosive		

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Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		Irritating to eyes	
2	benzylidimethylamine	103-83-3	203-149-1
Duration of exposure		24	h
Species		rabbit	
Source		ECHA	
Evaluation		Irreversible effects on the eye	
Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	benzylidimethylamine	103-83-3	203-149-1
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
Species		hepatocytes: Adult male F344 rats	
Method		OECD 482	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	benzylidimethylamine	103-83-3	203-149-1
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
Route of exposure		oral	
NOAEL		10100	mg/kg bw/d
Species		mouse	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	benzylidimethylamine	103-83-3	203-149-1
Route of exposure		oral	
NOEL		150	mg/kg bw/d
Duration of exposure		14	day(s)
Type of examination		Prenatal Developmental Toxicity Study	
Species		rat	
Method		OECD 414	
Source		ECHA	
Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
Route of exposure		dermal	
Species		mouse	
Method		OECD 451	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
STOT - single exposure			
No data available			

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STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
Route of exposure		oral	
NOAEL	>	5000	mg/kg bw/d
Species	rat		
Method	OECD 408		
Source	ECHA		
Route of exposure		inhalational	
NOAEC	>	100	mg/m ³
Species	rat		
Method	OECD 413		
Source	ECHA		
2	benzylidimethylamine	103-83-3	203-149-1
Route of exposure		oral	
NOEL		50	mg/kg bw/d
Duration of exposure		28	day(s)
Species	rats (male/female)		
Method	Japanese Ministry of Health and Welfare (M.H.W.) guidelines 1986 for a 28 day repeat dose oral toxicity study.		
Source	ECHA		
Aspiration hazard			
No data available			

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
LC50	>	1000	mg/l
Duration of exposure		96	h
Species	Cyprinus carpio		
Method	EU C.1		
Source	ECHA		
2	benzylidimethylamine	103-83-3	203-149-1
LC50		37,8	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
EC50	>	1000	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

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2	benzylidimethylamine	103-83-3	203-149-1
EC50	>	100	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU C.2		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	benzylidimethylamine	103-83-3	203-149-1
NOEC		0,789	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
EC50	>	900	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
2	benzylidimethylamine	103-83-3	203-149-1
EC50		0,56	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	EU C.3		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
EC50		25619	mg/l
Species	Pseudomonas putida		
Method	DIN 38412 T.8		
Source	ECHA		
2	benzylidimethylamine	103-83-3	203-149-1
EC50		749,6	mg/l
Duration of exposure		17	h
Species	Pseudomonas putida		
Method	DIN 38412 T.8		
Source	ECHA		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
Type	aerobic biodegradation		
Value		83,5	%
Duration		29	day(s)
Method	OECD 301 B		
Source	ECHA		
Evaluation	readily biodegradable		
2	benzylidimethylamine	103-83-3	203-149-1
Type	aerobic biodegradation		
Value	0	- 2	%
Duration		28	day(s)

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Method	OECD 301 C
Source	ECHA
Evaluation	not readily biodegradable

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	benzylidimethylamine	103-83-3	203-149-1
BCF		6,2 - 22	
Species	Oryzais latipes		
Method	OECD 305 C		
Source	ECHA		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	propylene carbonate	108-32-7	203-572-1
log Pow		-041	
Reference temperature		20	°C
Source	ECHA		
2	benzylidimethylamine	103-83-3	203-149-1
log Pow		1,98	
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

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Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information**Further information**

Safety precautions for handling freshly molded polyurethane parts:

Depending on the production parameters, any uncovered surfaces of freshly molded polyurethane parts using this raw material may contain traces of substances (e. g. starting and reaction products, catalysts, release agents) with hazardous characteristics. Skin contact with traces of these substances must be avoided. Therefore, during demolding or other handling of fresh molded parts, protective gloves tested according to DIN-EN 374 (e. g. nitrile rubber $\geq 0,35$ mm thick, breakthrough time ≥ 480 min, or according to recommendations from glove makers thinner gloves that need to be changed in compliance with breakthrough times more frequently) must be used. Depending on formulation and processing conditions, the requirements may be different from handling of the pure substances. Closed protective clothing is required for the protection of other areas of skin.

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.

Trade name: PLIXXOPOL RF 2200PJ

Product no.: 433

Current version : 1.1.1, issued: 27.09.2021

Replaced version: 1.1.0, issued: 04.08.2021

Region: IE

H411

Toxic to aquatic life with long lasting effects.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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