

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

1.1 Product identifier

Trade name: **SCHIUMARAPIDA ALL POSITIONS**

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

Selfexpanding assembly foam

Application of the substance / the mixture Construction chemicals

Uses advised against: This product is not recommended for all those uses not specifically identified on the label.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SARATOGA INT. SFORZA SPA

Via Edison 76

20090 - Trezzano s/Naviglio (MI) - ITALY

+39 02.445731

+39 02.4452742

Further information obtainable from: trading@saratogasforza.com

1.4 Emergency telephone number:

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (24h)

Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia) (24h)

Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma)

Centro Antiveleni di Roma 06 68593726 (CAV Ospedale Bambin Gesù" - Roma)

Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

Centro Antiveleni di Foggia 0881 732326 (CAV Ospedale Univ. - Foggia)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Lact. H362 May cause harm to breast-fed children.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

Additional information:

Classification of the preparation with attributed H413 phrase, taking into account the content C14-C17 chlorinated alkanes, was made on the basis of acute toxicology tests; FEICA Position Paper 17.03.2014.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

SCHIUMARAPIDA ALL POSITIONS
cod.85207001
Revision: 33.2.1/ EN

Page 2 of 11

Date of print: 21/09/2020
Date of review: 21/09/2020

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

- Contains: diphenylmethanediisocyanate, isomers and homologues alkanes, C14-17, chloro.

· **Hazard statements**

- H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H362 May cause harm to breast-fed children.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H413 May cause long lasting harmful effects to aquatic life.

· **Precautionary statements**

- 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.
P211 Do not spray on an open flame or other ignition source.
P263 Avoid contact during pregnancy and while nursing.
P260 Do not breathe gas/vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P271 Use only outdoors or in a well-ventilated area.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to an authorized collection centers.

· **Additional information:**

- Do not pierce or burn, even after use.

EUH204 Contains isocyanates. May produce an allergic reaction.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

2.3 Other hazards

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

SCHIUMARAPIDA ALL POSITIONS
cod.85207001
Revision: 33.2.1/ EN

Page 3 of 11

Date of print: 21/09/2020
Date of review: 21/09/2020

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**

CAS: 9016-87-9 EC number: 618-498-9	diphenylmethanediisocyanate, isomers and homologues ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	30.0 - 60.0%
CAS: 13674-84-5 EINECS: 237-158-7 Reg.nr.: 01-2119486772-26-xxxx	tris(2-chlorisopropyl)-phosphate ⚠ Acute Tox. 4, H302	< 25.0%
CAS: 85535-85-9 EINECS: 287-477-0 Reg.nr.: 01-2119519269-33-xxxx	(chlorinated paraffins, C14-17) alkanes, C14-17, chloro ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	< 30.0%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-21194869440-21-xxxx	propane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	< 15.0%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-31-xxxx	butane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	< 15.0%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	< 15.0%
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-0001	dimethyl ether ⚠ Flam. Gas 1, H220; Press. Gas C, H280	< 10.0%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

· **After skin contact:**

Remove uncured foam using a piece of cloth and an unaggressive solvent, e.g. ethanol. Wash your hands and the cleaned skin surface using soapy water. Cured foam can be removed mechanically with the use of a brush, soap and plenty of water. Use protective cream after skin surface has been cleaned.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.
Rinse out mouth and then drink plenty of water.

· **4.2 Most important symptoms and effects, both acute and delayed**

Notes to physician: The product irritates the respiratory tract and may trigger sensitisation of the skin and respiratory tract. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Extended medical treatment may be required depending on the degree of exposure and the severity of the symptoms.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

SCHIUMARAPIDA ALL POSITIONS
cod.85207001
Revision: 33.2.1/ EN

Page 4 of 11

Date of print: 21/09/2020
Date of review: 21/09/2020

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 - Carbon dioxide.
 - Fire-extinguishing powder.
 - Foam.
 - Water spray.Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**
 - Can form explosive gas-air mixtures.
 - Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Keep away from ignition sources.
 - Wear protective clothing.
 - Ensure adequate ventilation.
- **6.2 Environmental precautions:** Do not allow to enter sewers / surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Uncured foam adheres easily, hence it should be removed with caution. Remove instantly using a piece of cloth and solvents , e.g. acetone, alcohol. Remove cured foam mechanically.
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Ensure good ventilation / exhaustion at the workplace.
 - Open and handle receptacle with care.
 - Do not pierce or burn even after use. Use only as directed on the label.
 - Do not mix with any other chemical products.
- **Information about fire - and explosion protection:**
 - Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
 - Do not spray onto a naked flame or any incandescent material.
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 - Store in a cool location.
 - Observe official regulations on storing packagings with pressurised containers.

SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

SCHIUMARAPIDA ALL POSITIONS
cod.85207001
Revision: 33.2.1/ EN

Page 5 of 11

Date of print: 21/09/2020
Date of review: 21/09/2020

This product is subject to regulations governing the storage of highly flammable aerosol products.
Storage rooms should be equipped with heat and smoke detectors.
Electrical equipment should be explosion-proof.

· **Information about storage in one common storage facility:**

Do not store together with acids.
Do not store together with alkalis (caustic solutions).
Store away from reducing agents.
Store away from oxidising agents.
Store away from foodstuffs.
Store away from plastic, rubber, aluminum, light-metals.

· **Further information about storage conditions:**

Store receptacle in a well ventilated area.
Store in vertical position in closed original containers.
Store at temperature from +5 °C to +30 °C.
Protect from frost.
Store under lock and key and out of the reach of children.
Protect from heat and direct sunlight.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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CAS: 106-97-8 butane

WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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CAS: 115-10-6 dimethyl ether

WEL	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
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· **DNELs**

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

Oral	DNEL	20 mg/kg/day (General population, consumers)
Dermal	DNEL	0.05 mg/kg/day (General population, consumers)
Inhalative	DNEL	0.05 mg/m ³ (General population, consumers) 0.05 mg/m ³ (Workers)

CAS: 13674-84-5 tris(2-chlorisopropyl)-phosphate

Oral	DNEL	0.52 mg/kg/day (General population, consumers) 1.04 mg/kg/day (Workers)
Dermal	DNEL	4 mg/kg/day (General population, consumers) 2.08 mg/kg/day (Workers)

SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

SCHIUMARAPIDA ALL POSITIONS
cod.85207001
Revision: 33.2.1/ EN

Page 6 of 11

Date of print: 21/09/2020
Date of review: 21/09/2020

Inhalative	DNEL	11.2 mg/m3 (General population, consumers) 5.82 mg/m3 (Workers)
CAS: 115-10-6 dimethyl ether		
Inhalative	DNEL	471 mg/m3 (General population, consumers) 1894 mg/m3 (Workers)
CAS: 85535-85-9 chlorinated paraffins, C14-17		
Oral	DNEL	0.115 mg/kg/day (General population, consumers)
Dermal	DNEL	5.75 mg/kg/day (General population, consumers) 11.5 mg/kg/day (Workers)
Inhalative	DNEL	0.4 mg/m3 (General population, consumers) 1.6 mg/m3 (Workers)
· PNECs		
CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues		
(freshwater)		1 mg/l
(sea water)		0.1 mg/l
(soil)		1 mg/kg
CAS: 13674-84-5 tris(2-chlorisopropyl)-phosphate		
(freshwater sediments)		13.4 mg/kg
(sea water sediments)		1.34 mg/kg
(soil)		1.7 mg/kg
CAS: 115-10-6 dimethyl ether		
(freshwater)		0.155 mg/l
(sea water)		0.016 mg/l
(freshwater sediments)		0.681 mg/kg
(sea water sediments)		0.069 mg/kg
(soil)		0.045 mg/kg
CAS: 85535-85-9 chlorinated paraffins, C14-17		
(freshwater)		1 mg/l
(sea water)		0.2 mg/l
(freshwater sediments)		13 mg/kg
(sea water sediments)		2.6 mg/kg
(soil)		20 mg/kg

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

SCHIUMARAPIDA ALL POSITIONS
cod.85207001
Revision: 33.2.1/ EN

Page 7 of 11

Date of print: 21/09/2020
Date of review: 21/09/2020

The glove material has to be impermeable and resistant to the product / the substance / the preparation.

· **Material of gloves**

Polyethylene gloves.

Recommended thickness of the material: ≥ 0.02 mm.

· **Penetration time of glove material** ≥ 10 min

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Rapidly curing foam dispensed by gaseous propellant from an aerosol container

Colour:

Different according to colouring

· **Odour:**

Characteristic

· **Change in condition**

Melting point/freezing point:

Not determined

Initial boiling point and boiling range: Not applicable, as aerosol

· **Flash point:**

< 0 °C

· **Auto-ignition temperature:**

$> +350$ °C (propellant)

· **Explosive properties:**

Heating may cause an explosion.

· **Explosion limits:**

Lower:

1.5 Vol %

Upper:

11.0 Vol %

· **Vapour pressure:**

> 500 kPa (in the container)
 $< 1 \cdot 10^{-5}$ mmHg w 25 °C (MDI)

· **Density at 20 °C:**

≤ 1.3 (PMDI) g/cm³

· **Solubility in / Miscibility with water:**

Insoluble
Reacts with water

· **9.2 Other information**

No further relevant information available

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

SCHIUMARAPIDA ALL POSITIONS
cod.85207001
Revision: 33.2.1/ EN

Page 8 of 11

Date of print: 21/09/2020
Date of review: 21/09/2020

· **10.5 Incompatible materials:**

Strongly reacts with water and other substances containing an active hydrogen atom.

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity**

Harmful if inhaled.

· **LD/LC50 values relevant for classification:**

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

Oral	LD50	>10000 mg/kg (rat) (OECD401)
Dermal	LD50	>9400 mg/kg (rabbit) (OECD402)

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

Oral	LD50	9200 mg/kg (rat)
Inhalative	LC50/4h	178 mg/l (rat)

CAS: 13674-84-5 tris(2-chlorisopropyl)-phosphate

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4h	>0.5 mg/l (rat)

· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Respiratory or skin sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity**

Suspected of causing cancer.

· **Reproductive toxicity**

May cause harm to breast-fed children.

· **STOT-single exposure**

May cause respiratory irritation.

· **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 85535-85-9 chlorinated paraffins, C14-17

EC50	>1000mg/l/48h (daphnia) (20%MCCP's)
	>1000mg/l/72h (algae) (20%MCCP's)
NOEC	>1000 mg/l (algae) (20%MCCP's)

CAS: 13674-84-5 tris(2-chlorisopropyl)-phosphate

EC50	47 mg/kg (algae)
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SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

SCHIUMARAPIDA ALL POSITIONS
cod.85207001
Revision: 33.2.1/ EN

Page 9 of 11

Date of print: 21/09/2020
Date of review: 21/09/2020

- **12.2 Persistence and degradability** Not biodegradable.
- **12.3 Bioaccumulative potential** Does not accumulate in organisms.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

15 01 11	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including
	empty pressure containers

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|-----------------|
| · 14.1 UN-Number | |
| · ADR, IMDG, IATA | 1950 |
| · 14.2 UN proper shipping name | |
| · ADR | 1950 AEROSOLS |
| · IMDG, IATA | AEROSOLS |
| · 14.3 Transport hazard class(es) | |
| · ADR | |
|  | |
| · Class | 2 5F Gases. |
| · Label | 2.1 |
| ----- | |
| · IMDG, IATA | |
| · Class | 2 5F Gases. |
| · Label | 2.1 |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No. |
| · 14.6 Special precautions for user | Warning: Gases. |

SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

SCHIUMARAPIDA ALL POSITIONS
cod.85207001
Revision: 33.2.1/ EN

Page 10 of 11

Date of print: 21/09/2020
Date of review: 21/09/2020

· Danger code (Kemler):	-
· EMS Number:	F-D,S-U
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	LQ2
· Transport category	2
· Remarks:	Exemption from ADR provisions by LQ principal (rule 3.4.5) - Inner packaging, max. 1 liter in capacity; outer packaging – max. gross weight of 30kg. - Inner packaging, max. 1 liter in capacity, based on common ground and covered with shrink film – max. gross weight of 20kg.
· UN "Model Regulation":	UN1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 56, 74
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**
None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H362 May cause harm to breast-fed children.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

· **Recommended restriction of use**

The information stated above is based on current knowledge and applies to the product in the form in which it is used. Data concerning this product is presented in order to fulfill safety requirements and not to guarantee its specific properties.

In cases when application conditions are not subject to manufacturer's control, the responsibility for safe

SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

SCHIUMARAPIDA ALL POSITIONS

cod.85207001

Revision: 33.2/ EN

Page 11 of 11

Date of print: 22/11/2018

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product use and obeying law regulations in particular, lies on the user's side.
Information in the appropriate technical data sheet of product.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
Lact.: Reproductive toxicity – effects on or via lactation
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

*** Data compared to the previous version altered.**

Section from 1 to 16.