

Productname : SR Semi Per  
 Ref.Nr.: UDS001024\_3\_20190228 (EN)

Creationdate : 28.02.19 Version : 1.0  
 Replaces:

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

### 1.1. Product identifier

SR Semi Per  
 Aerosol

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

Release Agents

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

CRC Industries Europe bvba  
 Touwslagerstraat 1  
 9240 Zele  
 Belgium  
 Tel.: +32(0)52/45.60.11  
 Fax.: +32(0)52/45.00.34  
 E-mail : hse@crcind.com

Subsidiaries		Tel	Fax
CRC Industries Finland Oy	Smedsgatan 3-5 LT4, PL62, 08101 LOJO	+358/(19)32.921	
CRC Industries France	6, avenue du marais, C.S. 90028, 95102 Argenteuil Cedex	01.34.11.20.00	01.34.11.09.96
CRC Industries Deutschland GmbH	Südring 9, D-76473 Iffezheim	(07229) 303 0	(07229)30 32 66
CRC INDUSTRIES IBERIA S.L.U.	GREMIO DEL CUERO-PARC.96, POLIGONO INDUSTRI. DE HONTORIA, 40195 SEGOVIA	0034/921.427.546	0034/921.436.270
CRC Industries Sweden	Laxfiskevägen 16, 433 38 Partille	0046/31 706 84 80	0046/31 27 39 91

### 1.4. Emergency telephone number

CRC Industries Europe, Belgium: Tel.: +32(0)52/45.60.11 (office hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Physical: Aerosols, category 1  
 Extremely flammable aerosol.  
 Pressurised container: May burst if heated.

Classification is based on test data.



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**Health:** Skin irritation, category 2  
 Causes skin irritation.  
 Eye irritation, category 2  
 Causes serious eye irritation.  
 Specific target organ toxicity - single exposure, category 3  
 May cause drowsiness or dizziness.

Classification based on calculation method.

**Environment:** Hazardous to the aquatic environment, chronic category 2  
 Toxic to aquatic life with long lasting effects.

Classification based on calculation method.

## 2.2. Label elements

### Labelling according to Regulation (EC) No 1272/2008

**Product identifier:** Contains:  
 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

**Hazard pictogram(s):**



**Signal word:** Danger

**Hazard statement(s):** H222 : Extremely flammable aerosol.  
 H229 : Pressurised container: May burst if heated.  
 H315 : Causes skin irritation.  
 H319 : Causes serious eye irritation.  
 H336 : May cause drowsiness or dizziness.  
 H411 : Toxic to aquatic life with long lasting effects.

**Precautionary statement(s):** 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.  
 P251 : Do not pierce or burn, even after use.  
 P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P271 : Use only outdoors or in a well-ventilated area.  
 P410/412 : Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 P501-2 : Dispose of contents/container to an authorised waste collection point.

## 2.3. Other hazards

No information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures



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Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
Hydrocarbons,C3-4-rich, petroleum distillate Petroleumgas (1,3-butadiene < 0.1%)	01-2119485926-20	68512-91-4	270-990-9	30-60	Press. Gas, Flam. Gas 1	H280,H220	K,G
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic	01-2119475515-33	-	(927-510-4)	30-60	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2	H225,H315,H336,H304,H411	Q
xylene	01-21194488216-32	1330-20-7	215-535-7	5-10	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1	H226,H312,H332,H315,H319,H335,H373,H304	A,W
ethylbenzene	01-2119489370-35	100-41-4	202-849-4	1-5	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1	H225,H332,H373,H304	A
butan-1-ol; n-butanol	01-2119484630-38	71-36-3	200-751-6	<3	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3	H226,H302,H315,H318,H335,H336	B

#### Explanation notes

A : substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

G : exempted from the obligation to register in accordance with art.2(7)of REACH Regulation No 1907/2006

K : not classified as carcinogen, less than 0.1% w/w 1,3-butadiene (Einecs-nr. 203-450-8)

Q : The CAS-no is only an indicative identifier to be used outside the EU for global inventory entries.

W : Note: substance mentioned on the list of CMR-substances of the Dutch Ministry of Social Affairs and Employment (SZW)

(\* Explanation phrases : see chapter 16)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Contact with eyes :</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Contact with skin :</b>	Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
<b>Inhalation :</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Ingestion :</b>	If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention

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

<b>Inhalation :</b>	Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness
<b>Ingestion :</b>	After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.



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<b>Skin contact :</b>	Symptoms : sore throat, abdominal pain, nausea, vomiting Irritating to skin
<b>Eye contact :</b>	Symptoms : redness and pain Irritating to eyes Symptoms : redness and pain, impaired vision

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

**General Advice :** If you feel unwell, seek medical advice (show the label where possible)  
If symptoms persist always call a doctor

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

foam, carbon dioxide or dry agent  
Do not use water jet extinguishing media, due to the risk of spreading fire.

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

Aerosols may explode if heated above 50°C  
Forms hazardous decomposition products  
CO,CO2

#### 5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water  
In case of fire, do not breathe fumes

### SECTION 6: Accidental release measures

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

Shut off all ignition sources  
Ensure adequate ventilation  
Wear suitable protective clothing and gloves.

#### 6.2. Environmental precautions

Do not allow to enter public sewers and watercourses  
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

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

Absorb spillage in suitable inert material  
Place in appropriate container  
This material and/or its container must be disposed of as hazardous waste.

#### 6.4. Reference to other sections



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For further information see section 8

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep away from heat and sources of ignition  
 Take precautionary measures against static discharges  
 Equipment should be earthed  
 Use explosion-proof electrical/ventilating/lighting/.../equipment.  
 Use only non-sparking tools.  
 Do not breathe aerosols or vapours.  
 Ensure adequate ventilation  
 Avoid contact with skin and eyes.  
 Wash thoroughly after use  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Eyewash bottles should be available

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

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.  
 Keep out of reach of children.

### 7.3. Specific end use(s)

Release Agents

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Exposure limits :

Hazardous ingredient	CAS-nr.	method	
<b>EU established exposure limits:</b>			
ethylbenzene	100-41-4	TWA	100 ppm
		STEL	200 ppm
xylene	1330-20-7	TWA	50 ppm
		STEL	100 ppm
<b>National established exposure limits, United Kingdom</b>			
ethylbenzene	100-41-4	TWA	100 ppm
		STEL	125 ppm
xylene	1330-20-7	TWA	50 ppm
		STEL	100 ppm
butan-1-ol; n-butanol	71-36-3	STEL	50 ppm
<b>National established exposure limits, Ireland</b>			

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ethylbenzene	100-41-4	TWA	100 ppm
		STEL	200 ppm
xylene	1330-20-7	TWA	50 ppm
		STEL	100 ppm
butan-1-ol; n-butanol	71-36-3	TWA	20 ppm

## 8.2. Exposure controls

<b>Control procedures :</b>	Ensure adequate ventilation Keep away from heat and sources of ignition Take precautionary measures against static discharges
<b>Personal protection :</b>	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation In all cases handle and use the product in accordance with good industrial hygiene practices.
<b>inhalation :</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
recommended respiratory protection:	Air purifying respirator equipped with organic gas/vapor cartridge (type A)
<b>hands and skin :</b>	When handling the product wear chemical-resistant gloves (standard EN 374).
Recommended gloves:	Nitrile The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Depending on amount and duration of use and the risk of contact with the product the gloves manufacturer can assist you in the selection of the right glove material and breakthrough time.
<b>eyes :</b>	Wear safety eyewear according to EN 166.
<b>Environmental protection:</b>	Avoid release to the environment. Collect spillage.

## SECTION 9: Physical and chemical properties

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

(for aerosols data for the product without propellant)

<b>Appearance : physical state :</b>	Propane/butane propelled liquid.
<b>colour :</b>	Colorless.
<b>odour :</b>	Characteristic odor.
<b>pH :</b>	Not applicable.
<b>Boiling point/range :</b>	94 °C
<b>Flash point :</b>	- 4 °C
<b>Evaporation rate :</b>	Not available.
<b>Explosion limits : upper limit :</b>	9.4 %
<b>lower limit :</b>	1 %
<b>Vapour pressure :</b>	Not available.
<b>Relative density :</b>	0.785 g/cm <sup>3</sup> (@ 20°C).
<b>Solubility in water :</b>	Insoluble in water
<b>Auto-ignition :</b>	> 200 °C
<b>Viscosity :</b>	< 7 mPa.s (@ 40°C).



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## 9.2. Other information

VOC = volatile organic  
compounds 608 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions known if used for its intended purpose

### 10.2. Chemical stability

Stable

### 10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

### 10.4. Conditions to avoid

Avoid overheating

### 10.5. Incompatible materials

Strong oxidising agent

### 10.6. Hazardous decomposition products

CO,CO2

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>acute toxicity:</b>	based on available data the classification criteria are not met
<b>skin corrosion/irritation:</b>	Causes skin irritation.
<b>serious eye damage/irritation:</b>	Causes serious eye irritation.
<b>respiratory or skin sensitisation:</b>	based on available data the classification criteria are not met
<b>germ cell mutagenicity:</b>	based on available data the classification criteria are not met
<b>carcinogenicity:</b>	based on available data the classification criteria are not met
<b>toxicity for reproduction:</b>	based on available data the classification criteria are not met
<b>STOT-single exposure:</b>	May cause drowsiness or dizziness.
<b>STOT repeated exposure:</b>	based on available data the classification criteria are not met
<b>aspiration hazard:</b>	based on available data the classification criteria are not met

Information on likely routes of exposure:



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<b>Inhalation :</b>	Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
<b>Ingestion :</b>	After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.
<b>Skin contact :</b>	Irritating to skin
<b>Eye contact :</b>	Irritating to eyes

#### Toxicological data :

Hazardous ingredient	CAS-nr.	method	
butan-1-ol; n-butanol	71-36-3	LD50 oral rat	2292 mg/kg
		LC50 inhal.rat	> 17.76 mg/l
		LD50 derm.rabit	3430 mg/kg
Hydrocarbons, C7, n-alkanes,isoalkanes, cyclic	-	LD50 oral rat	> 5840 mg/kg
		LC50 inhal.rat	23.3 mg/l
		LD50 derm.rat	> 2920 mg/kg

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, chronic category 2  
 Toxic to aquatic life with long lasting effects.

#### Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
butan-1-ol; n-butanol	71-36-3	LC50 fish	1376 mg/l
		EC50 daphnia	1328 mg/l
Hydrocarbons, C7, n-alkanes,isoalkanes, cyclic	-	IC50 algae	10-30 mg/l
		LC50 fish	> 13.4 mg/l
		EC50 daphnia	3 mg/l

### 12.2. Persistence and degradability

No information available

### 12.3. Bioaccumulative potential

No information available

### 12.4. Mobility in soil

Insoluble in water





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### 12.5. Results of PBT and vPvB assessment

No information available

### 12.6. Other adverse effects

No information available  
GWP (global warming potential): 2

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

National regulations : Disposal should be in accordance with local, state or national legislation

## SECTION 14: Transport information

### 14.1. UN number

UN-number : 1950

### 14.2. UN proper shipping name

Proper shipping name: AEROSOLS (hydrocarbons)

### 14.3. Transport hazard class(es)

Class: 2.1  
ADR/RID - Classification code: 5F

### 14.4. Packing group

Packing group: Not applicable.

### 14.5. Environmental hazards

ADR/RID - Environmentally hazardous: Yes  
IMDG - Marine pollutant: Marine pollutant  
IATA/ICAO - Environmentally hazardous: Yes

### 14.6. Special precautions for user

ADR/RID - Tunnelcode: (D)  
IMDG - Ems: F-D, S-U  
IATA/ICAO - PAX: 203  
IATA/ICAO - CAO: 203



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#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

### SECTION 15: Regulatory information

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

The Safety Data Sheet is compiled according to the current European requirements.  
 Regulation (EC) No 1907/2006 (REACH)  
 Regulation (EC) No 1272/2008 (CLP)  
 Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.

#### 15.2. Chemical safety assessment

No information available

### SECTION 16: Other information

\*Explanation hazard statements: H220 : Extremely flammable gas.  
 H225 : Highly flammable liquid and vapour.  
 H226 : Flammable liquid and vapour.  
 H280 : Contains gas under pressure; may explode if heated.  
 H302 : Harmful if swallowed.  
 H304 : May be fatal if swallowed and enters airways.  
 H312 : Harmful in contact with skin.  
 H315 : Causes skin irritation.  
 H318 : Causes serious eye damage.  
 H319 : Causes serious eye irritation.  
 H332 : Harmful if inhaled.  
 H335 : May cause respiratory irritation.  
 H336 : May cause drowsiness or dizziness.  
 H373 : May cause damage to organs through prolonged or repeated exposure

H411 : Toxic to aquatic life with long lasting effects.  
 acronyms and synonyms: TWA = time weight average  
 STEL = short time exposure limit  
 VOC = volatile organic compounds  
 PBT = persistent bioaccumulative toxic  
 vPvB = very persistent very bioaccumulative

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC.

