

# Safety Data Sheet

According to Regulation(EC) No. 453/2010  
Issue Date : 2012-10-19

SDS1210180002

Version:1.0

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

### 1.1. Product identifier

Trade name: Rubber Solution  
Proper shipping name: ADHESIVES containing flammable liquid  
Other means of identification: No data available

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

#### 1.2.1. Relevant identified uses

Auxiliary repair of tires

#### 1.2.2. Uses advised against

Advice against other uses

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Classification	Category	Exposure Route
Flammable Liquids	2	-
Aspiration Toxicity	1	-
Skin Corrosion/Irritation	2	-
STOT SE	3	-
Aquatic Acute	1	-
Aquatic Chronic	1	-

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Risk codes	Risk phrases
R11	Highly flammable.
R65	Harmful: may cause lung damage if swallowed.
R38	Irritating to skin.
R67	Vapours may cause drowsiness and dizziness.
R50-53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Other adverse physicochemical, human health and environmental effects** No reliable data available.

### 2.2. Label elements

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

Hazard pictogram:



Signal word: Danger

Hazard Statements: H225: Highly flammable liquid and vapour  
H304: May be fatal if swallowed and enters airways  
H315: Causes skin irritation  
H336: May cause drowsiness or dizziness  
H400: Very toxic to aquatic life

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	H410: Very toxic to aquatic life with long lasting effects
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## Precautionary Statements:

Prevention:	P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting/equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P280: Wear protective gloves/protective clothing/eye protection/face protection. P264: Wash thoroughly after handling. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment.
Response:	P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse cautiously with water for several minutes. P370 + P378: In case of fire: Use carbon dioxide for extinction. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331: Do NOT induce vomiting. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P332 + P313: If skin irritation occurs: Get medical advice/attention. P362: Take off contaminated clothing and wash before reuse. P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312: Wash thoroughly after handling. P391: Collect spillage.
Storage:	P403 + P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. P233: Keep container tightly closed.
Disposal:	P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

## 2.3.

### Other hazards

No reliable data available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

Name	CAS No.	EC No.	Index No.	REACH No.	% wt/wt	Classification according to CLP	Classification according to DSD
Heptane	142-82-5	205-563-8	601-008-00 -2	-	94	Flammable Liquid Category 2; H225 Aspiration Toxicity Category 1; H304 Skin Corrosion/Irritation Category 2; H315 STOT SE Category 3; H336 Aquatic Acute Category 1; H400 Aquatic Chronic Category 1; H410	F; R11 Xn; R65 Xi; R38 R67 N; R50-53
Crude Rubber	9006-04-6	232-689-0	-	-	6	Not classified	Not classified

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:** Move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

**Skin contact:** Immediately remove all contaminated clothing, including footwear. Wash with plenty of soap and water. Get medical attention if irritation occurs.

**Eye contact:** Immediately flush eyes with running water for at least 20 minutes holding eyelids open. Get medical attention.

**Ingestion:** Do not induce vomiting. Give 1-2 glasses of water to a conscious victim. Never give anything by mouth to an unconscious victim. Get medical attention.

**Advice for the doctor:** Symptomatic treatment.

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

May cause lung damage if swallowed. Irritating to skin. Vapours may cause drowsiness and dizziness.

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

No reliable data available.

## SECTION 5: Firefighting measures

### Extinguishing media

#### 5.1.

Foam

Dry chemical powder

Carbon dioxide

Sandy soil

BCF (where regulations permit)

Water spray or fog-Large fires only

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

Fire/explosion hazard: Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidizers. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes under fire conditions. Main combustion gas: Carbon monoxide, carbon dioxide gases and other pyrolysis products typical of burning organic material.

#### 5.3. Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water courses.

Use water delivered as a fine spray to control fire and cool adjacent area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location. Only when safe to do so, remove containers from path of fire.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Wear suitable protective equipment.

#### 6.1.2. For emergency responders

Remove ignition sources and provision of sufficient ventilation, evacuate the danger area and consult experts.

### 6.2. Environmental precautions

Take precautions to prevent entry into waterways, sewers, or surface drainage systems. Dispose according to local or international regulations.

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

Use appropriate tools to put the spilled liquid in suitable container for recovery or disposal, minimize splashing.

### 6.4. Reference to other sections

Refer to Section 8 for Personal Protective Equipment advice.

## SECTION 7: Handling and storage

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## 7.1. Precautions for safe handling

Avoid ingestion, inhalation, skin and eye contact. Minimize splashing generation. Handle in accordance with good industrial hygiene practice and any legal requirements.

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

Suitable container: Plastic containers may only be used if approved for flammable liquid. Check all containers are clearly labelled and free from leaks. Store in a cool, dry, well-ventilated area. Keep away from heat, sparks, and flame. Storage incompatibility: Avoid reaction with strong acid, alkali and oxidizing agents.

## 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

At this time no TLV of this mixture has been established, even though this material may produce adverse health effects (as evidenced in animal experiments or clinical experience). Airborne concentrations must be maintained as low as practically possible and occupational exposure must be kept to a minimum.

Heptane (CAS No. 142-82-5)

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Australia	400	1640	500	2050
Austria	500	2000	2000	8000
Belgium	400	1664	500	2085
Canada - Ontario	400 (1)		500 (1)	
Canada - Québec	400	1640	500	2050
Denmark	200	820	400	1640
<b>European Union</b>	<b>500</b>	<b>2085</b>		
<b>France</b>	<b>400</b>	<b>1668</b>	<b>500</b>	<b>2085</b>
Germany (AGS)	500	2100	500 (1)	2100 (1)
Germany (DFG)	500	2100	500	2100
Hungary		2000		8000
Italy	500	2085		
New Zealand	400	1640	500	2050
Sweden	200	800	300	1200
Switzerland	400	1600	400	1600
The Netherlands		1200		1600
USA - NIOSH	85	350	440 (1)	1800 (1)
USA - OSHA	500	2000		
United Kingdom	500			
	Remarks			
Canada - Ontario	(1) all isomers			

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European Union	Bold-type: Indicative Occupational Exposure Limit Values and Limit Values for Occupational Exposure
France	Bold type: Restrictive statutory limit values
Germany (AGS)	(1) 15 minutes average value
Germany (DFG)	STV 15 minutes average value
USA - NIOSH	(1) ceiling limit value (15 min)

## Crude rubber (CAS No. 9006-04-6)

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Belgium		0,001 (proteins)		
Canada - Ontario		0,0001 (1,2)		
Spain		0,001		
	Remarks			
Canada - Ontario	(1) inhalable aerosol (2) as inhalable allergenic proteins			
Spain	skin			

## 8.2. Exposure controls

Appropriate engineering controls: Process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

General Personal Protection: Safety goggles or face shield, protective chemical resistant gloves, protective clothing.

## SECTION 9: Physical and chemical properties

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

Physical state:	Semi-transparent viscous liquid
Colour:	Colourless
Odour:	Penetrating odour
Oduour threshold	No data available
pH:	No data available
Melting point:	No data available
Boiling point:	>60 °C
Flash point:	<0 °C (closed cup)
Evapotation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability:	No data available
Explosive limits:	No data available
Vapour pressure:	No data available
Relative density:	No data available
Solubility(ies):	Hardly soluble in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Viscosity:	No data available

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Explosive properties:	No data available
Oxidising properties:	No data available

## 9.2.

**Other information** No additional data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

See section 7.2

### 10.2. Chemical stability

Stable under normal temperatures and pressures.

### 10.3. Possibility of hazardous reactions

See section 7.2

### 10.4. Conditions to avoid

Heat, sparks, flames, elevated temperatures, contact with incompatible materials.

### 10.5. Incompatible materials

See section 7.2

### 10.6. Hazardous decomposition products

Thermal decomposition products: Carbon monoxide, carbon dioxide gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity:	Heptane: LD50(rat, oral): >5000 mg/kg bw (OECD TG 401) LC50(rat, inhalation): >73.5 mg/L air (analytical) (OECD TG 403) LD50(rabbit, dermal): >2000 mg/kg bw (OECD TG 402)
Skin corrosion/irritation:	Heptane: Irritating (OECD TG 404)
Serious eye damage/irritation:	No data available
Respiratory or skin sensitisation:	Skin sensitisation: Heptane: Not sensitizing (OECD TG 406)
Germ cell mutagenicity:	Heptane: Negative (OECD TG 471)
Carcinogenicity:	No data available
Reproductive toxicity:	Heptane: NOAEL=3000 ppm (for both male and female (adults and offspring)) LOAEL=9000 ppm (based on reduced body weight) NOAEL=9000 ppm (based on reproduction)
Specific target organ toxicity (single exposure):	No data available
Specific target organ toxicity (repeated exposure):	Inhalation: Heptane: NOAEC Neurotoxicity: =12470 mg/m <sup>3</sup> air NOAEC Systemic: =12470 mg/m <sup>3</sup> air
Aspiration hazard:	No data available

## SECTION 12: Ecological information

Acute (short-term) toxicity:

Heptane:

Crustacea (Daphnia magna, 48h): EC50=1.5 mg/L (based on measured data)

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EL50=3.9 mg/L (based on nominal data)

Chronic (long-term) toxicity:

Heptane:

Crustacea(Daphnia Magna, 21d): NOELR= 1 mg/L; EL50=1.6 mg/L (OECD TG 211)

## 12.2. Persistence and degradability Heptane:

Ready biodegradation.

## 12.3. Bioaccumulative potential

Heptane: BCF value: =552

## 12.4.

**Mobility in soil** Adsorption/Desorption:

Heptane: log Koc: =2.38

## 12.5. Results of PBT and vPvB assessment

No data available.

## 12.6. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product disposal: Refer to specific national regulation.

Contaminated packaging: Contaminated, empty containers must be disposed of as chemical waste.

## SECTION 14: Transport information

### Land transport (ADR / RID / GGVSE)

14.1 UN number	1133	14.4 Packing group	II	
14.2 UN proper shipping name	Shipping Name: ADHESIVES containing flammable liquid	14.5 Environmental hazard	No relevant data	
			Hazard identification (Kemler)	33
14.3 Transport hazard class(es)	3	14.6 Special precautions for user	Classification Code	F1
			Hazard Label	3
			Special provisions	640C
			Add limited quantity	5L

### Air transport (ICAO-IATA / DGR)

14.1 UN number	1133	14.4 Packing group	II	
14.2 UN proper shipping name	Shipping Name: ADHESIVES containing flammable liquid	14.5 Environmental hazard	No relevant data	
			Special provisions	A3
14.3 Transport hazard class(es)	ICAO/IATA Class: 3 ERG Code: 3L	14.6 Special precautions for user	Cargo Only Packing Instructions	364
			Cargo Only Maximum Qty / Pack	60L
			Passenger and Cargo Packing Instructions	353
			Passenger and Cargo Maximum Qty / Pack	5L

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			Passenger and Cargo Limited Quantity Packing Instructions	Y341
			Passenger and Cargo Maximum Qty / Pack	1L

## Sea transport (IMDG-Code / GGVSee)

14.1 UN number	1133	14.4 Packing group	II	
14.2 UN proper shipping name	Shipping Name: ADHESIVES containing flammable liquid	14.5 Environmental hazard	No data available	
		14.6 Special precautions for user	EMS number	F-E,S-E
Special provisions	PP1			
Limited Quantities	5L			
14.3 Transport hazard class(es)	3 IMDG Subrisk: None			

## Inland waterways transport (ADNR / River Rhine)

14.1 UN number	1133	14.4 Packing group	II	
14.2 UN proper shipping name	Shipping Name: ADHESIVES containing flammable liquid	14.5 Environmental hazard	No relevant data	
		14.6 Special precautions for user	Classification code	F1
Limited quantity	LQ3			
Equipment required	None			
Fire cones number	1			
14.3 Transport hazard class(es)	3 ADNR Label 3			

## 14.7. Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - 67/548/EEC, 1999/45/EC, Regulation (EC) No 1272/2008, Regulation (EC) No 1907/2006, 98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC and 1999/13/EC.

#### 15.1.2. International/National regulations

UN Transport of Dangerous Goods.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### 16.1 Indication of changes

No data available

### 16.2 Key literature references and sources for data

- ESIS (European chemical Substances Information System), <http://esis.jrc.ec.europa.eu/>
- REACH registered chemicals, [http://echa.europa.eu/chem\\_data\\_en.asp](http://echa.europa.eu/chem_data_en.asp)
- IFA GESTIS - International limit values for chemical agents - occupational exposure limits (OELs), [http://www.dguv.de/ifa/en/gestis/limit\\_values/index.jsp](http://www.dguv.de/ifa/en/gestis/limit_values/index.jsp)

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*