

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP)

Revision date: 31.07.2017

**"JADE" Vulcanising Solution****1 Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Material Name:** "JADE" Vulcanising Solution**Product code:** 66310-67, 66311-67, 66312-67**Additional information:** Rev. 2.0**1.2 Relevant identified uses of the substance or mixture and uses advised against:****Relevant identified uses:** For tyres cold cure repair**Uses advised against:** Any uses inconsistent with product labeling are advised against**1.3 Details of the manufacturer/supplier of the safety data sheet****Supplier:**

SCHRADER International

BP 29 - 48 rue de Salins.

25301 Pontarlier Cedex.France.

Telefon: +33 (0)3 81 38 56 56.

Fax: +33 (0)3 81 46 41 42.

E-Mail: resale.info@schrader.fr

Website: <http://www.schrader.fr>**1.4 Emergency telephone number:**

CHEMTREC UK (London): +(44)-870-8200418 (CHEMTREC, 24 hours)

CHEMTREC France: +(33)-975181407 (CHEMTREC, 24 hours)

CHEMTREC Germany: 0800-181-7059 (CHEMTREC, 24 hours)

CHEMTREC Germany (Frankfurt): +(49)-69643508409 (CHEMTREC, 24 hours)

CHEMTREC Italy: 800-789-767 (CHEMTREC, 24 hours)

CHEMTREC Italy (Milan): +(39)-0245557031 (CHEMTREC, 24 hours)

**2 Hazards identification****2.1 Classification of the substance or mixture:**

In compliance with EC regulation No. 1272/2008 (CLP).

Flammable liquids, category 2.

Aspiration hazard, category 1.

Reproductive toxicity, category 1B.

**Hazard-determining components of labeling:**Solvent naphtha (petroleum), light aliphatic  
bis(2-Ethylhexyl) phthalate**2.2 Label elements****Hazard pictograms:****Signal word:** Danger**Hazard statements:**

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H360 May damage fertility or the unborn child.

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#### Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/light/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center or doctor/physician.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P331 Do not induce vomiting.
- P370+P378 In case of fire: Use agents recommended in section 5 for extinction.
- P403+P235 Store in a well ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents and container as instructed in Section 13.

#### 2.3 Other hazards: None known.

#### Information concerning particular hazards for humans and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

#### Classification system:

The classification is according to EC regulation No. 1272/2008(CLP), and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

### 3 Composition/information on ingredients

#### 3.1 Substances:

#### 3.2 Mixtures:

Name	CAS No	EC No	REACH Registration No	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight %
Solvent naphtha (petroleum), light aliphatic	64742-89-8	265-192-2	Not available	Asp. Tox. 1; H304 Carc. 1B; H350 Muta. 1B; H340	75-85
1,3-Butadiene, 2-methyl-, homopolymer	9003-31-0	Not available	Not available	Not classified as hazardous	5-10
Zinc, (N-butyl-1-butanamine)bis(N,N-dibutylcarbamo-dithioato-kappaS,kappaS')-	35884-05-0	252-774-6	Not available	Not classified as hazardous	2-5
Kaolin	1332-58-7	310-194-1	Not available	Not classified as hazardous	2.5-3
Zinc oxide	1314-13-2	215-222-5	Not available	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	1.5-2
bis(2-Ethylhexyl) phthalate	117-81-7	204-211-0	Not available	Repr. 1B; H360	1-1.5

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Resin acids and Rosin acids, hydrogenated, esters with glycerol	65997-13-9	266-042-9	Not available	Not classified as hazardous	0.4-0.8
Titanium Dioxide	13463-67-7	236-675-5	Not available	Not classified as hazardous	<0.2
Stearic acid	57-11-4	200-313-4	Not available	Not classified as hazardous	0.1-0.2

#### Additional information:

According to Note P of the European Directive 67/548/CEE, the substance "naphtha (oil)" should not be classified as a "carcinogenic" ingredient, because the benzene content (number EINECS 200-753-7) is lower than 0.1% in weight.

Independent testing of Tech International products containing zinc oxide demonstrate that zinc is not appreciably leachable, and therefore does not contribute to an aquatic hazard in the finished form, or levels present in this product.

**Full text of H and EUH phrases:** see sections 2.2 or 16 for applicable H and/or EUH phrases

#### 4 First aid measures

##### 4.1 Description of first aid measures

**General notes:** None.

##### Following inhalation:

Loosen clothing as necessary and position individual in a comfortable position.  
Maintain an unobstructed airway.  
Get medical advice/attention if you feel unwell.

##### Following skin contact:

Wash affected area with soap and water.  
Seek medical attention if symptoms develop or persist.

##### Following eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.  
Seek medical attention if symptoms develop or persist.

##### Following ingestion:

Rinse mouth thoroughly.  
Seek medical attention if irritation, discomfort, or vomiting persists.

##### Self-protection of the first-aider:

See Section 8.2

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

None

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

No additional information.

#### 5 Firefighting measures

##### 5.1 Extinguishing media

##### Suitable extinguishing media:

Use dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

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**"JADE" Vulcanising Solution****Unsuitable extinguishing media:**

Do not use water as an extinguisher.

**5.2 Special hazards arising from the substance or mixture:**

Thermal decomposition can lead to release of irritating gases and vapors.

Vapors can flow to distant ignition sources and flashback.

Liquid is volatile and may generate an explosive atmosphere.

**5.3 Advice for fire-fighters****Protective equipment:**

Wear protective eye wear, gloves and clothing.

Refer to Section 8.

**Additional information:**

Shut off sources of ignition.

Carbon monoxide and carbon dioxide may form upon combustion.

Heating causes a rise in pressure, risk of bursting and combustion.

**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation.

Ensure air handling systems are operational.

Wear protective eye wear, gloves and clothing.

Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas.

**6.2 Environmental precautions:**

Should not be released into the environment.

Prevent from reaching drains, sewer or waterway.

**6.3 Methods and material for containment and cleaning up:**

Wear protective eye wear, gloves and clothing.

Use spark-proof tools and explosion-proof equipment.

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders).

Dispose of contents / container in accordance with local regulations.

**6.4 Reference to other sections: None****7 Handling and storage****7.1 Precautions for safe handling:**

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only non-sparking tools.

Take precautionary measures against electrostatic discharges.

Use only with adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities:**

Store in a cool, well-ventilated area.

Keep container tightly sealed.

Keep away from all ignition sources: open flames, hot surfaces, direct sunlight, spark sources.

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Protect from freezing and physical damage.

**7.3 Specific end use(s):** No additional information.

### 8 Exposure controls/personal protection



#### 8.1 Control parameters:

##### Occupational Exposure limit values:

*Only those substances with limit values have been included in the table below*

Chemical name	Country	Limit Value – Eight Hours		Limit Value – Short Term*	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Zinc Oxide (dust)	France	Not available	10	Not available	Not available
	Italy	Not available	Not available	Not available	Not available
	Germany (AGS)	Not available	Not available	Not available	Not available
Kaolin	France	Not available	10**	Not available	Not available
	Italy	Not available	Not available	Not available	Not available
	Germany (AGS)	Not available	Not available	Not available	Not available
Titanium Dioxide	France	Not available	11***	Not available	Not available
	Italy	Not available	Not available	Not available	Not available
	Germany (AGS)	Not available	Not available	Not available	Not available
bis(2-Ethylhexyl) phthalate	France	Not available	5	Not available	Not available
	Italy	Not available	Not available	Not available	Not available
	Germany (AGS)	Not available	2	Not available	4

*\*Short term is 15 minutes unless otherwise specified | \*\*respirable aerosol | \*\*\*inhalable aerosol*

#### 8.2 Exposure controls

##### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Use explosion-proof ventilation equipment.

##### Personal protection equipment:

###### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

###### Skin protection:

Select glove material impermeable and resistant to the substance in compliance with European Standard EN 374 and/or EN 420. For continuous contact, we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Always seek advice from glove suppliers.

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#### Respiratory protection:

Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

#### General hygienic measures:

Wash hands before breaks and at the end of work.  
Avoid contact with skin, eyes and clothing.  
Wash contaminated clothing before reuse.

#### Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 9 Physical and chemical properties

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

<b>Appearance (physical state, color):</b>	Blue Viscous Liquid	<b>Explosion limit lower:</b>	1.3
		<b>Explosion limit upper:</b>	8.0
<b>Odor:</b>	Strong solvent	<b>Vapor pressure:</b>	
<b>Odor threshold:</b>	Not determined or not available.	<b>Vapor density:</b>	> 1.0 (Air = 1.0)
<b>pH-value:</b>	Not determined or not available.	<b>Relative density:</b>	0.79 g/cm <sup>3</sup> (6.57 lb/gal) @ 20°C
<b>Melting/Freezing point:</b>	Below -45.5°C	<b>Solubilities:</b>	Soluble in most organic solvents.
<b>Boiling point/range:</b>	93.3-115.6°C	<b>Partition coefficient (n- octanol/water):</b>	Not determined or not available.
<b>Flash point (closed cup):</b>	-7°C	<b>Auto/Self-ignition temperature:</b>	280°C
<b>Evaporation rate:</b>	3.5 (n-BuAC=1)	<b>Decomposition temperature:</b>	Not determined or not available.
<b>Flammability (solid, gaseous):</b>	Not determined or not available	<b>Dynamic viscosity:</b>	Not determined or not available
<b>Density:</b>	Not determined or not available.	<b>Kinematic viscosity:</b>	Not determined or not available
<b>Explosive properties:</b>	Not determined or not available	<b>Oxidizing properties:</b>	Not determined or not available

9.2 Other information: Not available

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**"JADE" Vulcanising Solution****10 Stability and reactivity**

- 10.1 Reactivity:** Does not react under normal conditions of use and storage.
- 10.2 Chemical stability:** Stable under normal conditions of use and storage.
- 10.3 Possibility of hazardous reactions:** None under normal conditions of use and storage.
- 10.4 Conditions to avoid:** None known.
- 10.5 Incompatible materials:** None known.
- 10.6 Hazardous decomposition products:** None known.

**11 Toxicological information****11.1 Information on toxicological effects:**

**Acute toxicity:** No information available.

**Skin corrosion/irritation:** No information available.

**Serious eye damage/irritation:** No information available.

**Respiratory or skin sensitization:** No information available.

**Germ cell mutagenicity:**

Solvent naphtha (petroleum), light aliphatic: The classification as a mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

**Carcinogenicity:**

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

Airborne, unbound particles of respirable size of Titanium Dioxide are known to cause cancer.

**IARC (International Agency for Research on Cancer):**

Group 3 - Not classifiable as to its carcinogenicity to humans: 1,3-Butadiene, 2-methyl-, homopolymer.

Group 3 - Not classifiable as to its carcinogenicity to humans: bis(2-Ethylhexyl) phthalate.

Group 3 - Not classifiable as to its carcinogenicity to humans: Titanium Dioxide.

**NTP (National Toxicology Program):**

Reasonably anticipated to be human carcinogens: bis(2-Ethylhexyl) phthalate.

**Reproductive Toxicity:**

bis(2-Ethylhexyl) phthalate: May cause developmental toxicity.

**STOT-single and repeated exposure:** No additional information.

**Aspiration hazard:** No information available.

**12 Ecological information****12.1 Toxicity:**

Zinc oxide: Fish, *Oncorhynchus mykiss* (rainbow trout) - 1.1 mg/l - 96.0 h.

Zinc oxide: Aquatic invertebrates, *Daphnia magna* (Water flea) - 0.098 mg/l - 48 h.

**12.2 Persistence and degradability:** No additional information.

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**12.3 Bioaccumulative potential:** No additional information.

**12.4 Mobility in soil:** No additional information.

**General notes:** No additional information.

**12.5 Results of PBT and vPvB assessment:**

**PBT:** No additional information.

**vPvB:** No additional information.

**12.6 Other adverse effects:** No additional information.

### 13 Disposal considerations

#### 13.1 Waste treatment methods


**Relevant information:**

Consult with EU Directive 2008/98/EC for the classifications of hazardous waste prior to disposal. Furthermore, consult with your regional, national or European waste requirements or guidelines, if applicable, to ensure compliance. Final decisions on the appropriate waste management method, in line with regional, national and European legislation, remains the responsibility of the waste treatment operator.

### 14 Transport information

**Land transport:**

**DOT (49 CFR) transport**

<b>14.1 UN Number:</b>	1133
<b>14.2 UN Proper shipping name:</b>	Adhesives
<b>14.3 UN Transport hazard classes:</b>	3
<b>14.4 Packing group:</b>	II
<b>Danger label:</b>	3 Flammable liquids 
<b>14.5 Environmental hazards:</b>	No
<b>14.6 Special precautions for user:</b>	None
<b>Limited quantity:</b>	1L

**ADR/RID**

<b>14.1 UN Number:</b>	1133
<b>14.2 UN Proper shipping name:</b>	Adhesives
<b>14.3 UN Transport hazard classes:</b>	3
<b>14.4 Packing group:</b>	II




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<b>Danger label:</b>	3 Flammable liquids 
<b>Tunnel restriction code:</b>	(D/E)
<b>Transport category:</b>	2
<b>Hazard ID number:</b>	33
<b>14.5 Environmental hazards:</b>	No
<b>14.6 Special precautions for user:</b>	None
<b>Limited quantity:</b>	5L
<b>Quantity exception:</b>	E2


#### Air transport:

##### IATA-DGR

<b>14.1 UN Number:</b>	1133
<b>14.2 UN Proper shipping name:</b>	Adhesives
<b>14.3 UN Transport hazard classes:</b>	3
<b>14.4 Packing group:</b>	II
<b>Danger label:</b>	3 Flammable liquids 
<b>14.5 Environmental hazards:</b>	No
<b>14.6 Special precautions for user:</b>	None
<b>Limited quantity:</b>	1L
<b>Quantity exception:</b>	E2

#### Sea transport:

##### IMDG

<b>14.1 UN Number:</b>	1133
<b>14.2 UN Proper shipping name:</b>	Adhesives
<b>14.3 UN Transport hazard classes:</b>	3
<b>14.4 Packing group:</b>	II
<b>Danger label:</b>	3 Flammable liquids 
<b>EMS code:</b>	None
<b>14.5 Environmental hazards:</b>	No

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<b>14.6 Special precautions for user:</b>	None
<b>Limited quantity:</b>	5L
<b>Quantity exception:</b>	E2

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable

### 15 Regulatory information

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

##### European Union

**REACH Article 57 (SVHC):** bis(2-Ethylhexyl) phthalate

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:** bis(2-Ethylhexyl) phthalate

**European Inventory of Existing Commercial Chemical Substances (EINECS):** All ingredients are listed or exempted

**Priority List Chemicals:** bis(2-Ethylhexyl) phthalate

**Chemical Weapons Convention List Schedule I Chemicals:** Not listed

**Chemical Weapons Convention List Schedule II Chemicals:** Not listed

**Chemical Weapons Convention List Schedule III Chemicals:** Not listed

##### Other regulations

#### 15.2 Chemical Safety Assessment:

This product contains substances for which Chemical Safety Assessments are still required.

### 16 Other information

**Indication of Changes:** Not applicable

**Abbreviations and Acronyms:** None

#### Classification procedure:

Classification according to Regulation (EC) No. 1272/2008 (CLP)	Method Used
Flammable liquids, category 2.	On basis of test data
Aspiration hazard, category 1.	Calculation method
Reproductive toxicity, category 1B.	Calculation method

**Supplemental Hazards per EC 1272/2008 Annex II, Parts 1-5:** Not applicable

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**“JADE” Vulcanising Solution****Manufacturer’s Statement:**

This product has been classified in accordance with hazard criteria of EC 1272/2008 (CLP) and the SDS contains all the information required by this and the EC 1907/2006 regulation. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**Date of initial preparation:** 26.08.2016.

Updates: Section 1