

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 1 of 22

Revision date: 08.21.2019

### Blue Heavy Duty Vulcanizing Fluid

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

##### 1.1 Product identifier

**Product Name:** Blue Heavy Duty Vulcanizing Fluid

**Product code:** 775, 776

**Additional information:** Rev 7

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

**Relevant identified uses:** Rubber Cement

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

##### 1.3 Details of the manufacturer/supplier of the safety data sheet

**Manufacturer:**

**North America**

Tech International

200 East Coshocton Street

Johnstown, OH 43031

1-740-967-9015

www.tech-international.com

**Supplier:**

**European Union**

Tech International Europe

Koeybleuken 16

2300 Turnhout, Belgium

00 32 1442 3103

info@techeurope.co.uk

##### 1.4 Emergency telephone number:

**European Union**

CHEMTREC

Brussels +(32) - 28083237

#### SECTION 2: Hazard(s) identification

##### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No. 1272/2008 (CLP):**

Flammable liquids, category 2

Skin irritation, category 2

Specific target organ toxicity - single exposure, category 3, central nervous system

Chronic aquatic hazard, category 2

**Hazard-determining components of labeling:**

Heptane, branched, cyclic and linear

Heptane

##### 2.2 Label elements

**Hazard pictograms:**



**Signal word:** Danger

**Hazard statements:**

H225 Highly flammable liquid and vapor.

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 2 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash skin thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P332+P313 If skin irritation occurs: Get medical advice/attention

P312 Call a POISON CENTER/doctor/physician if you feel unwell.

P321 Specific treatment (see supplemental first aid instructions on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use agents recommended in Section 5 to extinguish.

P391 Collect spillage

P403+P235 Store in a well ventilated place. Keep cool.

P405 Store locked up.

P403+P233 Store in a well ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards: None known

## SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

### 3.2 Mixture:

Identification	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 426260-76-6	Heptane, branched, cyclic and linear	Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Flam. Liq. 2; H225 Stot SE 3; H336 Skin Irrit. 2 ; H315	75-85
CAS number: 9003-31-0	Natural Rubber	Not classified	5-10
CAS number: 35884-05-0	Zinc Dibutyldithiocarbamate/Butylamine Complex	Not classified	2-5

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 3 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

CAS number: 142-82-5 EC number: 205-563-8	Heptane	Asp. Tox. 1; H304 Skin Irrit. 2 ; H315 Stot SE 3; H336 Flam. Liq. 2; H225 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<4
CAS number: 1332-58-7	Clay	Not classified	2.5-3
CAS number: 1314-13-2	Zinc oxide	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	1.5-2
CAS number: 8042-47-5 EC number: 232-455-8	White Mineral Oil	Not classified	1-1.5
CAS number: 65997-13-9	Glycerol Ester of Partially Hydrogenated Wood Rosin	Not classified	0.4-0.8
CAS number: 57-11-4	Stearic acid	Not classified	0.1-0.2
CAS number: 13463-67-7	Titanium Dioxide	Not classified	<0.04
CAS number: 14808-60-7 EC number: 238-878-4	Crystalline Silica	Stot RE 1; H372 Carc. 1A; H350	<0.02

### Additional information:

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.

The historical CAS number for this material, CAS# 64742-49-0, is applicable to a broad naphtha stream and is not specific to heptane. The EPA approved CAS number specific to heptane, branched, cyclic and linear is CAS# 426260-76-6.

**Full Text of H and EUH statements:** See section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes:

Not determined or not available.

#### 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:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Take off all contaminated clothing

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 4 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

Gently blot or brush away excess product  
Wash with plenty of lukewarm, gently flowing water  
Get medical advice if skin irritation occurs or you feel unwell

### Following eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes  
If symptoms develop or persist, seek medical attention

### Following ingestion:

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

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

### Acute symptoms and effects:

Not determined or not available.

### Delayed symptoms and effects:

Not determined or not available.

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

### Specific treatment:

Not determined or not available.

### Notes for the doctor:

Not determined or not available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

#### Unsuitable extinguishing media:

Do not use a water stream 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 firefighters

#### Personal protection equipment:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

#### Special precautions:

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.

## SECTION 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:

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 5 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

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:

Not determined or not applicable.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Use only with adequate ventilation.  
Avoid breathing mist or vapor.  
Do not eat, drink, smoke or use personal products when handling chemical substances.  
Take precautionary measures against electrostatic discharges.  
Use only non-sparking tools.

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

Keep container tightly sealed.  
Protect from freezing and physical damage.  
Store in a cool, well-ventilated area.  
Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

### 7.3 Specific end use(s):

Not determined or not applicable.

## SECTION 8: Exposure controls/personal protection



### 8.1 Control parameters

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Czech Republic	Heptane, branched, cyclic and linear	426260-76-6	8-hour TWA: 1000 mg/m <sup>3</sup>
	Heptane, branched, cyclic and linear	426260-76-6	Ceiling limit: 2000 mg/m <sup>3</sup>
	Heptane	142-82-5	8-hour TWA: 1000 mg/m <sup>3</sup>
	Heptane	142-82-5	Ceiling limit (NPK-P): 2000 mg/m <sup>3</sup>
	Glycerol Ester of Partially Hydrogenated Wood Rosin	65997-13-9	8-hour TWA: 4 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	8-hour TWA: 2 mg/m <sup>3</sup> (as Zn)

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 6 of 22

Revision date: 08.21.2019

### Blue Heavy Duty Vulcanizing Fluid

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Zinc oxide	1314-13-2	Ceiling limit (NPK-P): 5 mg/m <sup>3</sup> (Fumes)
	Clay	1332-58-7	8-hour TWA: 5.0 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m <sup>3</sup> (aerosol)
	White Mineral Oil	8042-47-5	Ceiling limit (NPK-P): 10 mg/m <sup>3</sup> (aerosol)
	Crystalline Silica	14808-60-7	8-hour TWA: 0.1 mg/m <sup>3</sup> (quartz, dust, respirable fraction)
Bulgaria	Heptane	142-82-5	TWA: 1600 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	TWA: 5.0 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	15-minute STEL: 10.0 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> (Respirable dust)
	Clay	1332-58-7	TWA: 6.0 mg/m <sup>3</sup> (inhalable fraction)
	Clay	1332-58-7	TWA: 3.0 mg/m <sup>3</sup> (respirable fraction)
	White Mineral Oil	8042-47-5	TWA: 5.0 mg/m <sup>3</sup> (petroleum)
	Crystalline Silica	14808-60-7	TWA: 0.07 mg/m <sup>3</sup> (free silicon dioxide, crystalline and quartz glass, respirable fraction)
Croatia	Heptane	142-82-5	Maximum (8 hr) allowable concentration: 500 ppm (2085 mg/m <sup>3</sup> )
	Glycerol Ester of Partially Hydrogenated Wood Rosin	65997-13-9	Maximum (8 hr) allowable concentration: 0.05 mg/m <sup>3</sup>
	Glycerol Ester of Partially Hydrogenated Wood Rosin	65997-13-9	Short-term (15 min) allowable concentration: 0.15 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	Maximum (8 hr) allowable concentration: 5 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	Short-term (15 min) allowable concentration: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> (Total dust) 15-min
	Titanium Dioxide	13463-67-7	OEL: TWA 4.0 mg/m <sup>3</sup> (Respirable dust) 15-min
	Clay	1332-58-7	Maximum (8 hr) allowable concentration: 2 mg/m <sup>3</sup> (respirable dust)
	Crystalline Silica	14808-60-7	Maximum (8 hr) allowable concentration: 0.1 mg/m <sup>3</sup> (crystalline SiO <sub>2</sub> [quartz])
Estonia	Heptane	142-82-5	8-hour TWA: 500 ppm (2085 mg/m <sup>3</sup> )
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 5 mg/m <sup>3</sup> 8-hr

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 7 of 22

Revision date: 08.21.2019

### Blue Heavy Duty Vulcanizing Fluid

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Clay	1332-58-7	8-hour TWA: 10 mg/m <sup>3</sup> (total dust)
	Clay	1332-58-7	8-hour TWA: 5 mg/m <sup>3</sup> (fine dust)
	Crystalline Silica	14808-60-7	8-hour TWA: 0.1 mg/m <sup>3</sup> (quartz, fine dust)
Hungary	Heptane	142-82-5	8-hour TWA (ÁK Value): 2000 mg/m <sup>3</sup>
	Heptane	142-82-5	60-minute STEL (CK value): 8000 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	8-hour TWA (ÁK Value): 5 mg/m <sup>3</sup> (Respirable)
	Zinc oxide	1314-13-2	60-minute STEL (CK Value): 20 mg/m <sup>3</sup> (Respirable)
	Clay	1332-58-7	8-hour TWA (ÁK Value): 10 mg/m <sup>3</sup> (total, inhalable)
	Clay	1332-58-7	8-hour TWA (ÁK Value): 5 mg/m <sup>3</sup> (Respirable)
	White Mineral Oil	8042-47-5	Ceiling Limit (MK Value): 5 mg/m <sup>3</sup> [Oil smog (mineral oil)]
	Crystalline Silica	14808-60-7	8-hour TWA (ÁK Value): 0.15 mg/m <sup>3</sup> (quartz, respirable)
Latvia	Heptane	142-82-5	8-hour TWA: 350 mg/m <sup>3</sup> (85 ppm)
	Heptane	142-82-5	15-minute STEL: 2085 mg/m <sup>3</sup> (500 ppm)
	Zinc oxide	1314-13-2	8-hour TWA: 0.5 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Clay	1332-58-7	8-hour TWA: 2 mg/m <sup>3</sup>
Lithuania	Heptane	142-82-5	8-hour TWA: 2085 mg/m <sup>3</sup> (500 ppm)
	Heptane	142-82-5	15-minute STEL: 3128 mg/m <sup>3</sup> (750 ppm)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m <sup>3</sup>
	Stearic acid	57-11-4	8-hour TWA: 5 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 5 mg/m <sup>3</sup> 8-hr
	Clay	1332-58-7	8-hour TWA: 10 mg/m <sup>3</sup> (inhalable fraction)
	Clay	1332-58-7	8-hour TWA: 5 mg/m <sup>3</sup> (respirable fraction)
	White Mineral Oil	8042-47-5	8-hour TWA: 1 mg/m <sup>3</sup> (Oil mist, including smoke)
	White Mineral Oil	8042-47-5	15-minute STEL: 3 mg/m <sup>3</sup> (Oil mist, including smoke)
	Crystalline Silica	14808-60-7	8-hour TWA: 0.1 mg/m <sup>3</sup> [quartz (silicon dioxide form), respirable fraction]

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 8 of 22

Revision date: 08.21.2019

### Blue Heavy Duty Vulcanizing Fluid

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Slovakia	Zinc Dibutyldithiocarbamate/Butylamine Complex	35884-05-0	8-hour TWA (NPEL): 0.1 mg/m <sup>3</sup> (respirable fraction)
	Zinc Dibutyldithiocarbamate/Butylamine Complex	35884-05-0	8-hour TWA (NPEL): 2 mg/m <sup>3</sup> (inhalable fraction)
	Heptane	142-82-5	8-hour TWA (NPEL): 500 ppm (2085 mg/m <sup>3</sup> )
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 1 mg/m <sup>3</sup> [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	15-minute STEL (NPEL): 1 mg/m <sup>3</sup> [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 0.1 mg/m <sup>3</sup> [Zinc and its inorganic compounds (Respirable fraction)]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 2 mg/m <sup>3</sup> [Zinc and its inorganic compounds (Inhalable fraction)]
	Titanium Dioxide	13463-67-7	OEL: TWA (NPEL) 5 mg/m <sup>3</sup> 8-hr
	Clay	1332-58-7	8-hour TWA (NPEL): 2 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	8-hour TWA (NPEL): 5 ppm (1 mg/m <sup>3</sup> ) [Liquid mineral oil mist, fumes]
	White Mineral Oil	8042-47-5	15-minute STEL (NPEL): 15 ppm (3 mg/m <sup>3</sup> ) [Liquid mineral oil mist, fumes]
	Crystalline Silica	14808-60-7	8-hour TWA (NPEL): 0.1 mg/m <sup>3</sup> (silica)
	Crystalline Silica	14808-60-7	8-hour TWA: 0.1 mg/m <sup>3</sup> (silicon dioxide, crystalline, respirable fraction)
	Malta	Heptane	142-82-5
Poland	Heptane	142-82-5	8-hour TWA (NDS): 1200 mg/m <sup>3</sup>
	Heptane	142-82-5	15-minute STEL (NDSch): 2000 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	8-hour TWA (NDS): 5 mg/m <sup>3</sup> (Inhalable fraction, as Zn)
	Zinc oxide	1314-13-2	15-minute STEL (NDSch): 10 mg/m <sup>3</sup> (Inhalable fraction, as Zn)
	Titanium Dioxide	13463-67-7	OEL: TWA (NDS) 10.0 mg/m <sup>3</sup> 8-hr
	Clay	1332-58-7	8-hour TWA: 6 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	8-hour TWA (NDS): 5 mg/m <sup>3</sup> (Highly refined mineral oils with the exception of cutting fluids, Inhalable fraction)
	Crystalline Silica	14808-60-7	8-hour TWA (NDS): 2 mg/m <sup>3</sup> (dusts containing more than 50% free crystalline silica, inhalable fraction)



## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 9 of 22

Revision date: 08.21.2019

### Blue Heavy Duty Vulcanizing Fluid

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Crystalline Silica	14808-60-7	8-hour TWA (NDS): 0.3 mg/m <sup>3</sup> (dusts containing more than 50% free crystalline silica, respirable fraction)
	Crystalline Silica	14808-60-7	8-hour TWA (NDS): 4 mg/m <sup>3</sup> (dusts containing from 2% to 50% free crystalline silica, inhalable fraction)
	Crystalline Silica	14808-60-7	8-hour TWA (NDS): 1 mg/m <sup>3</sup> (dusts containing from 2% to 50% free crystalline silica, respirable fraction)
Romania	Heptane	142-82-5	8-hour TWA: 2085 mg/m <sup>3</sup> (500 ppm)
	Glycerol Ester of Partially Hydrogenated Wood Rosin	65997-13-9	8-hour TWA: 0.10 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m <sup>3</sup> (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m <sup>3</sup> (Fumes)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Titanium Dioxide	13463-67-7	OEL: STEL 15 mg/m <sup>3</sup> 15-min
	Clay	1332-58-7	8-hour TWA: 2 mg/m <sup>3</sup> (inhalable fraction)
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m <sup>3</sup> (Mineral oils)
	White Mineral Oil	8042-47-5	15-minute STEL: 10 mg/m <sup>3</sup> (Mineral oils)
	Crystalline Silica	14808-60-7	8-hour TWA: 0.1 mg/m <sup>3</sup> (quartz, respirable fraction)
	Crystalline Silica	14808-60-7	8-hour TWA: 0.1 mg/m <sup>3</sup> (quartz, dust, respirable fraction)
Slovenia	Heptane	142-82-5	8-hour TWA: 2085 mg/m <sup>3</sup> (500 ppm)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m <sup>3</sup> [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	STEL: 20 mg/m <sup>3</sup> [Fumes (Respirable fraction)]
	Crystalline Silica	14808-60-7	8-hour TWA: 0.15 mg/m <sup>3</sup> (quartz, respirable fraction)
United Kingdom	Glycerol Ester of Partially Hydrogenated Wood Rosin	65997-13-9	TWA: 0.05 mg/m <sup>3</sup>
	Glycerol Ester of Partially Hydrogenated Wood Rosin	65997-13-9	STEL: 0.15 mg/m <sup>3</sup>
	Heptane	142-82-5	TWA: 500 ppm (2085 mg/m <sup>3</sup> )
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> (Total dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 4.0 mg/m <sup>3</sup> (Respirable dust)

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 10 of 22

Revision date: 08.21.2019

### Blue Heavy Duty Vulcanizing Fluid

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Clay	1332-58-7	TWA: 2 mg/m <sup>3</sup> (respirable dust)
	Crystalline Silica	14808-60-7	TWA: 0.1 mg/m <sup>3</sup> (silica, respirable crystalline)
European Union	Heptane	142-82-5	IOEL threshold limit: 2085 mg/m <sup>3</sup> (500 ppm)
	Heptane	142-82-5	SCOEL 8-hour TWA: 500 ppm (2085 mg/m <sup>3</sup> )
	White Mineral Oil	8042-47-5	SCOEL 8-hour TWA: 5 mg/m <sup>3</sup> (severely refined mineral oils, inhalable)
Belgium	Heptane	142-82-5	8-hour TWA: 400 ppm (1664 mg/m <sup>3</sup> )
	Heptane	142-82-5	15-minute STEL: 500 ppm (2085 mg/m <sup>3</sup> )
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m <sup>3</sup> (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m <sup>3</sup> (Fumes)
	Zinc oxide	1314-13-2	8-hour TWA: 10 mg/m <sup>3</sup> (Dusts)
	Stearic acid	57-11-4	8-hour TWA: 10 mg/m <sup>3</sup> (as stearates)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Clay	1332-58-7	8-hour TWA: 2 mg/m <sup>3</sup> (respirable fraction)
	Clay	1332-58-7	8-hour TWA: 10 mg/m <sup>3</sup> (inhalable fraction)
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m <sup>3</sup> [Mineral oils (mist)]
	White Mineral Oil	8042-47-5	15-minute STEL: 10 mg/m <sup>3</sup> [Mineral oils (mist)]
	Crystalline Silica	14808-60-7	8-hour TWA: 0.1 mg/m <sup>3</sup> [crystalline silica: quartz (respirable dust)]
Denmark	Heptane	142-82-5	TWA: 200 ppm (820 mg/m <sup>3</sup> )
	Zinc oxide	1314-13-2	TWA: 4 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 6.0 mg/m <sup>3</sup>
	Clay	1332-58-7	TWA: 2 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	TWA: 1 mg/m <sup>3</sup>
	Crystalline Silica	14808-60-7	TWA: 0.3 mg/m <sup>3</sup> (total)
	Crystalline Silica	14808-60-7	TWA: 0.1 mg/m <sup>3</sup> (respirable)
Finland	Heptane	142-82-5	8-hour limit: 300 ppm (1200 mg/m <sup>3</sup> )
	Heptane	142-82-5	15-minute limit: 500 ppm (2100 mg/m <sup>3</sup> )
	Zinc oxide	1314-13-2	8-hour limit: 2 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	15-minute limit: 10 mg/m <sup>3</sup>

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 11 of 22

Revision date: 08.21.2019

### Blue Heavy Duty Vulcanizing Fluid

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Clay	1332-58-7	8-hour limit: 2 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	8-hour limit: 5 mg/m <sup>3</sup>
	Crystalline Silica	14808-60-7	8-hour limit: 0.05 mg/m <sup>3</sup>
France	Heptane	142-82-5	Time weighted average (VME): 400 ppm (1668 mg/m <sup>3</sup> )
	Heptane	142-82-5	Short term exposure limit: 500 ppm (2085 mg/m <sup>3</sup> )
	Zinc oxide	1314-13-2	Time weighted average (VME): 5 mg/m <sup>3</sup> (Fumes)
	Zinc oxide	1314-13-2	Time weighted average (VME): 10 mg/m <sup>3</sup> (Dusts)
	Titanium Dioxide	13463-67-7	OEL: (VME) 10 mg/m <sup>3</sup>
	Clay	1332-58-7	Time weighted average (VME): 10 mg/m <sup>3</sup>
	Crystalline Silica	14808-60-7	Time weighted average (VME) 0.1 mg/m
Germany	Heptane	142-82-5	AGW limit value: 500 ppm (2100 mg/m <sup>3</sup> )
	Heptane	142-82-5	AGW Short term (15 min) exposure limit: 500 ppm (2100 mg/m <sup>3</sup> )
	Clay	1332-58-7	AGW Limit value: 1.25 mg/m <sup>3</sup> (respirable fraction)
	Clay	1332-58-7	AGW limit value: 10 mg/m <sup>3</sup> (inhalable fraction)
	White Mineral Oil	8042-47-5	AGW limit value: 5 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	AGW Short term (15 min) exposure limit: 20 mg/m <sup>3</sup>
Greece	Heptane	142-82-5	8-hour TWA: 500 ppm (2000 mg/m <sup>3</sup> )
	Heptane	142-82-5	15-minute STEL: 500 ppm (2000 mg/m <sup>3</sup> )
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m <sup>3</sup> (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m <sup>3</sup> (Fumes)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> (Inhalable) 8-hr
	Titanium Dioxide	13463-67-7	OEL: TWA 5.0 mg/m <sup>3</sup> (Respirable dust) 8-hr
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m <sup>3</sup> [Paraffin oil (Mist)]
Ireland	Heptane	142-82-5	8-hour OEL (TWA): 500 ppm (2085 mg/m <sup>3</sup> )
	Stearic acid	57-11-4	8-hour TWA: 10 mg/m <sup>3</sup> (as stearates, except lead stearate)

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 12 of 22

Revision date: 08.21.2019

### Blue Heavy Duty Vulcanizing Fluid

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> (Inhalable dust) 8-hr
	Titanium Dioxide	13463-67-7	OEL: TWA 4.0 mg/m <sup>3</sup> (Respirable dust) 8-hr
	Clay	1332-58-7	8-hour OEL (TWA): 2.0 mg/m <sup>3</sup> (respirable dust)
	White Mineral Oil	8042-47-5	8-hour OEL (TWA): 5 mg/m <sup>3</sup> (Mineral oil, pure, highly and severely refined; Inhalable fraction)
Italy	Heptane	142-82-5	8-hour TWA: 500 ppm (2085 mg/m <sup>3</sup> )
	Zinc oxide	1314-13-2	8-hour TWA: 2 mg/m <sup>3</sup> (Respirable fraction)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m <sup>3</sup> (Respirable fraction)
	Stearic acid	57-11-4	8-hour TWA: 3 mg/m <sup>3</sup> [Stearates (except stearates of toxic metals), Respirable fraction]
	Stearic acid	57-11-4	8-hour TWA: 10 mg/m <sup>3</sup> [Stearates (except stearates of toxic metals), Inhalable fraction]
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Clay	1332-58-7	8-hour TWA: 2 mg/m <sup>3</sup> (Respirable fraction)
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m <sup>3</sup> (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	Crystalline Silica	14808-60-7	8-hour TWA: 0.025 mg/m <sup>3</sup> (respirable fraction)
Netherlands	Heptane	142-82-5	Binding 8-hour TWA: 1200 mg/m <sup>3</sup>
	Heptane	142-82-5	Binding STEL (15 min): 1600 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	Binding 8-hour TWA: 5 mg/m <sup>3</sup> [Oil mist (Mineral oil)]
	Crystalline Silica	14808-60-7	Binding 8-hour TWA: 0.075 mg/m <sup>3</sup> (respirable dust)
Portugal	Heptane	142-82-5	Decree-Law No. 24/2012 8-hour TWA: 500 ppm (2085 mg/m <sup>3</sup> )
	Heptane	142-82-5	NP 1796-2007 8-hour exposure limit: 400 ppm
	Heptane	142-82-5	NP 1796-2007 Short-term exposure limit: 500 ppm
	Zinc oxide	1314-13-2	8-hour exposure limit: 2 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	Short-term exposure limit: 10 mg/m <sup>3</sup>

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 13 of 22

Revision date: 08.21.2019

### Blue Heavy Duty Vulcanizing Fluid

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Stearic acid	57-11-4	8-hour Exposure Limit: 10 mg/m <sup>3</sup> (as stearates)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Clay	1332-58-7	8-hour exposure limit: 2 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	NP 1796-2007 8-hour exposure limit: 5 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	NP 1796-2007 Short-term exposure limit: 10 mg/m <sup>3</sup>
	Crystalline Silica	14808-60-7	8-hour exposure limit: 0.025 mg/m <sup>3</sup>
Spain	Heptane	142-82-5	8-hour daily exposure limit (VLA-ED): 500 ppm (2085 mg/m <sup>3</sup> )
	Zinc oxide	1314-13-2	8-hour daily exposure limit (VLA_ED): 2 mg/m <sup>3</sup>
	Zinc oxide	1314-13-2	15-minute STEL (VLA-EC): 10 mg/m <sup>3</sup>
	Stearic acid	57-11-4	8-hour daily exposure limit (VLA_ED): 10 mg/m <sup>3</sup> [Stearates (except stearates of toxic metals)]
	Titanium Dioxide	13463-67-7	OEL: (VLA_ED) 10.0 mg/m <sup>3</sup> 8-hr
	Clay	1332-58-7	8-hour daily exposure limit (VLA_ED): 2 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	8-hour daily exposure limit (VLA_ED): 5 mg/m <sup>3</sup>
	White Mineral Oil	8042-47-5	15-minute STEL (VLA-EC): 10 mg/m <sup>3</sup>
	Crystalline Silica	14808-60-7	8-hour daily exposure limit (VLA_ED): 0.05 mg/m <sup>3</sup>
Sweden	Heptane	142-82-5	Level Limit Value (NGV): 200 ppm (800 mg/m <sup>3</sup> )
	Heptane	142-82-5	Short Term Limit (KTV): 300 ppm (1200 mg/m <sup>3</sup> )
	Zinc oxide	1314-13-2	Level Limit Value (NGV): 5 mg/m <sup>3</sup> (Total dust)
	Stearic acid	57-11-4	Level Limit Value (NGV): 5 mg/m <sup>3</sup> (as stearates, total dust)
	Titanium Dioxide	13463-67-7	OEL: (NGV) 5.0 (Total dust) mg/m <sup>3</sup>
	Clay	1332-58-7	Level Limit Value (NGV): 5 mg/m <sup>3</sup> (respirable dust)
	Clay	1332-58-7	Level Limit Value (NGV): 10 mg/m <sup>3</sup> (inhalable dust)
	White Mineral Oil	8042-47-5	Level Limit Value (NGV): 1 mg/m <sup>3</sup> (Oil mist including oil fume)
	White Mineral Oil	8042-47-5	Short Term Limit (KTV): 3 mg/m <sup>3</sup> (Oil mist including oil fume)

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 14 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Crystalline Silica	14808-60-7	Level Limit Value (NGV): 0.1 mg/m <sup>3</sup> (quartz, respirable)
Luxembourg	Heptane	142-82-5	TWA: 500 ppm (2085 mg/m <sup>3</sup> )
Austria	Heptane	142-82-5	TWA: 2000 mg/m <sup>3</sup> (500 ppm)
	Heptane	142-82-5	STEL: 8000 mg/m <sup>3</sup> (2000 ppm)
	Titanium Dioxide	13463-67-7	OEL: TWA 5 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: STEL 10 mg/m <sup>3</sup>
	Crystalline Silica	14808-60-7	MAK yearly average: 0.15 mg/m <sup>3</sup>
Cyprus	Zinc oxide	1314-13-2	8-hour TWA: 5.0 mg/m <sup>3</sup> (Fumes)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr

### Biological limit values:

No biological exposure limits noted for the ingredient(s).

### Derived No Effect Level (DNEL):

Not determined or not applicable.

### Predicted No Effect Concentration (PNEC):

Not determined or not applicable.

### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

## 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.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Use explosion-proof ventilation equipment.

### Personal protection equipment

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body 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 nitrile 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.

#### Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

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.

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 15 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

Use a European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Comply with the European Standard EN149.

### General hygienic measures:

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

### Environmental exposure controls:

- Select controls based on a risk assessment of local conditions.
- See section 6 for information on accidental release measures.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Blue Viscous Liquid
<b>Odor</b>	Strong Solvent
<b>Odor threshold</b>	Not determined or not available.
<b>pH</b>	Not determined or not available.
<b>Melting point/freezing point</b>	Not determined or not available.
<b>Initial boiling point/range</b>	190°F (88°C)
<b>Flash point (closed cup)</b>	15°F (-9°C)
<b>Evaporation rate</b>	> 1 (n-BuAC = 1)
<b>Flammability (solid, gas)</b>	Not determined or not available.
<b>Upper flammability/explosive limit</b>	6.7% (V)
<b>Lower flammability/explosive limit</b>	1.2% (V)
<b>Vapor pressure</b>	119 mmHg at 20°C (68°F)
<b>Vapor density</b>	Not determined or not available.
<b>Density</b>	Not determined or not available.
<b>Relative density</b>	Not determined or not available.
<b>Solubilities</b>	Not determined or not available.
<b>Partition coefficient (n-octanol/water)</b>	Not determined or not available.
<b>Auto/Self-ignition temperature</b>	Not determined or not available.
<b>Decomposition temperature</b>	Not determined or not available.
<b>Dynamic viscosity</b>	Not determined or not available.
<b>Kinematic viscosity</b>	3000 cps
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	Not determined or not available.

### 9.2 Other information

## SECTION 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.

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 16 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

### 10.3 Possibility of hazardous reactions:

None under normal conditions of use and storage.

### 10.4 Conditions to avoid:

Excess heat, ignition source or flames.

### 10.5 Incompatible materials:

None known.

### 10.6 Hazardous decomposition products:

None known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Route	Result
Heptane	inhalation	LC50 Rat: > 29.29 mg/L (4 hr)
	oral	LD50 Rat: > 5000 mg/kg

#### Skin corrosion/irritation

##### Assessment:

Causes skin irritation

##### Product data:

No data available.

##### Substance data:

Name	Result
Heptane	Causes skin irritation.
Heptane, branched, cyclic and linear	Causes skin irritation.

#### Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

##### Product data:

No data available.

**Substance data:** No data available.

#### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

##### Product data:

No data available.

**Substance data:** No data available.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**



# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 17 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

Name	Species	Result
Crystalline Silica	Not applicable	Airborne particles of respirable size of Crystalline silica are known to cause cancer.
Titanium Dioxide	Not applicable	Airborne, unbound particles of respirable size of Titanium Dioxide are known to cause cancer.

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

Name	Classification
Natural Rubber	Group 3 - Not classifiable as to its carcinogenicity to humans
Titanium Dioxide	Group 3 - Not classifiable as to its carcinogenicity to humans
Crystalline Silica	Group 1 - Carcinogenic to humans

### National Toxicology Program (NTP):

Name	Classification
Crystalline Silica	Known to be human carcinogens

### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Reproductive Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Specific target organ toxicity (single exposure)

**Assessment:**

May cause drowsiness or dizziness

**Product data:**

No data available.

**Substance data:**

Name	Result
Heptane, branched, cyclic and linear	May cause drowsiness or dizziness.
Heptane	May cause drowsiness or dizziness.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:**

Name	Result
Crystalline Silica	Component affects the lungs through repeated exposure.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 18 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

### Product data:

No data available.

### Substance data:

Name	Result
Heptane, branched, cyclic and linear	May be fatal if swallowed and enters airways.
Heptane	May be fatal if swallowed and enters airways.

### Information on likely routes of exposure:

No data available.

### Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

### Other information:

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Acute (short-term) toxicity

##### Assessment:

Toxic to aquatic life

**Product data:** No data available.

##### Substance data:

Name	Result
Zinc oxide	Oncorhynchus mykiss (rainbow trout) - 1.1 mg/l - 96.0 h
	Daphnia magna (Water flea) - 0.098 mg/l - 48 h
Heptane	LC50 - Carassius auratus (goldfish) - 4 mg/l - 24.0 h
	EC50 - Daphnia magna - 82.5 mg/L - 96 h

#### Chronic (long-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### 12.2 Persistence and degradability

**Product data:** No data available.

##### Substance data:

Name	Result
Heptane	Readily biodegradable in water.

### 12.3 Bioaccumulative potential

**Product data:** No data available.

##### Substance data:

Name	Result
Heptane	Calculated BCF: 552 (Not expected to bioaccumulate).

### 12.4 Mobility in soil

**Product data:** No data available.

##### Substance data:

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 19 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

Name	Result
Heptane	Moderately Mobile (log Koc: 2.38)

### 12.5 Results of PBT and vPvB assessment

#### PBT assessment:

Heptane	This substance is not PBT.
---------	----------------------------

#### vPvB assessment:

Heptane	This substance is not vPvB.
---------	-----------------------------

### 12.6 Other adverse effects: No data available.

## SECTION 13: Disposal considerations



### 13.1 Waste treatment methods

#### Relevant information:



It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

## SECTION 14: Transport information



### International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number	UN1133
UN proper shipping name	Adhesives
UN transport hazard class(es)	3  
Packing group	II
Environmental hazards	Marine Pollutant (Heptane and Heptane, Branched, cyclic and linear)
Special precautions for user	None

### International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number	UN1133
UN proper shipping name	Adhesives
UN transport hazard class(es)	3  
Packing group	II
Environmental hazards	Marine Pollutant (Heptane and Heptane, Branched, cyclic and linear)
Special precautions for user	None

### International Maritime Dangerous Goods (IMDG)

UN number	UN1133
UN proper shipping name	Adhesives
UN transport hazard class(es)	3  

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016



Page 20 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

<b>Packing group</b>	II
<b>Environmental hazards</b>	Marine Pollutant (Heptane and Heptane, Branched, cyclic and linear)
<b>Special precautions for user</b>	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

<b>UN number</b>	UN1133
<b>UN proper shipping name</b>	Adhesives
<b>UN transport hazard class(es)</b>	3  
<b>Packing group</b>	II
<b>Environmental hazards</b>	Marine Pollutant (Heptane and Heptane, Branched, cyclic and linear)
<b>Special precautions for user</b>	None

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

<b>Bulk Name</b>	None
<b>Ship type</b>	None
<b>Pollution category</b>	None

## SECTION 15: Regulatory information

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

#### European regulations

##### Inventory listing (EINECS):

9003-31-0	Natural Rubber	Not Listed
35884-05-0	Zinc Dibutyldithiocarbamate/Butylamine Complex	Listed
1314-13-2	Zinc oxide	Listed
57-11-4	Stearic acid	Listed
13463-67-7	Titanium Dioxide	Listed
65997-13-9	Glycerol Ester of Partially Hydrogenated Wood Rosin	Listed
1332-58-7	Clay	Listed
8042-47-5	White Mineral Oil	Listed
426260-76-6	Heptane, branched, cyclic and linear	Not Listed
14808-60-7	Crystalline Silica	Listed
142-82-5	Heptane	Listed

**REACH SVHC candidate list:** None of the ingredients are listed.

**REACH SVHC Authorizations:** None of the ingredients are listed.

**REACH Restriction:** None of the ingredients are listed.

**Water hazard class (WGK) (Product):** Not determined.

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 08.26.2016

Page 21 of 22

Revision date: 08.21.2019

## Blue Heavy Duty Vulcanizing Fluid

### Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Zinc oxide	1314-13-2	2
Stearic acid	57-11-4	Non-hazardous to water.
Titanium Dioxide	13463-67-7	Non-hazardous to water.
Glycerol Ester of Partially Hydrogenated Wood Rosin	65997-13-9	1
Clay	1332-58-7	Non-hazardous to water.
White Mineral Oil	8042-47-5	1
Crystalline Silica	14808-60-7	Non-hazardous to water.
Zinc Dibutyldithiocarbamate/Butylamine Complex	35884-05-0	Not applicable.
Natural Rubber	9003-31-0	Not applicable.
Heptane, branched, cyclic and linear	426260-76-6	Not applicable.
Heptane	142-82-5	2

### Other regulations

**Germany TA Luft:** None of the ingredients are listed.

**Germany MAK:** Zinc oxide: 8-hour TWA: 0.1 mg/m<sup>3</sup> [Zinc and its inorganic compounds (respirable fraction)], Zinc oxide: 8-hour TWA: 2 mg/m<sup>3</sup> [Zinc and its inorganic compounds (inhalable fraction)], Kaolin: 8-hour TWA: 0.3 mg/m<sup>3</sup>, Heptane: 8-hour TWA: 500 ppm (2100 mg/m<sup>3</sup>)

### 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

### Indication of changes:

April 10, 2019: Composition change, consequently changing the occupational exposure limits and a change in classification

**Abbreviations and Acronyms:** None

### Classification procedure:

Classification according to Regulation (EC) No. 1272/2008 (CLP)	Method Used
Flammable liquids, category 2	Calculation method
Skin irritation, category 2	Calculation method
Specific target organ toxicity - single exposure, category 3, central nervous system	Calculation method
Chronic aquatic hazard, category 2	Calculation method

### Summary of classification(s) in section 3:

Asp. Tox. 1; H304	Aspiration hazard, category 1
Aquatic Chronic 2; H411	Chronic aquatic hazard, category 2
Flam. Liq. 2; H225	Flammable liquids, category 2
Stot SE 3; H336	Specific target organ toxicity - single exposure, category 3, central nervous system
Skin Irrit. 2 ; H315	Skin irritation, category 2
Aquatic Acute 1; H400	Acute aquatic hazard, category 1

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

**Initial preparation date:** 08.26.2016

Page 22 of 22

**Revision date:** 08.21.2019

### Blue Heavy Duty Vulcanizing Fluid

Aquatic Chronic 1; H410	Chronic aquatic hazard, category 1
Stot RE 1; H372	Specific target organ toxicity - repeated exposure, category 1
Carc. 1A; H350	Carcinogenicity, category 1A

#### Summary of hazard statements in section 3:

H304	May be fatal if swallowed and enters airways
H411	Toxic to aquatic life with long lasting effects
H225	Highly flammable liquid and vapour
H336	May cause drowsiness or dizziness
H315	Causes skin irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H372	Causes damage to organs through prolonged or repeated exposure
H350	May cause cancer

#### Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP) and EC No. 1907/2006 (REACH). The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**Initial preparation date:** 08.26.2016

**Revision date:** 08.21.2019

**End of Safety Data Sheet**