

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

Initial preparation date: 06.07.2017

Revision date: 06.11.2019

Temvulc Black Cement

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

1.1 Product identifier Product Name: Temvulc Black Cement Product code: 1082, 1082G, 1082-5G, 1082-55G Additional information: Rev 3

 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses: Rubber Adhesive 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 Skin sensitization, category 1 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 Sulfur

Benzothiazole Disulfide

2.2 Label elements

Hazard pictograms:



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Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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.

P272 Contaminated work clothing should not be allowed out of the workplace.

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.

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

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

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

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

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

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	80-90

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	1		
CAS number: 9003-31-0 EC number: 618-362-9	Natural Rubber	Not classified	5-10
CAS number: 1333-86-4 EC number: 215-609-9	Carbon Black	Not classified	2-5
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: 1314-13-2 EC number: 215-222-5	Zinc oxide	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.7-0.9
CAS number: 57-11-4 EC number: 200-313-4	Stearic acid	Not classified	0.2-0.4
CAS number: 120-78-5 EC number: 204-424-9	Benzothiazole Disulfide	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.1-0.15
CAS number: 68476-34-6 EC number: 270-676-1	Diesel Fuel No. 2	Carc. 2; H351	<0.1
CAS number: 7704-34-9 EC number: 231-722-6	Sulfur	Skin Irrit. 2 ; H315	<0.1
CAS number: 64742-65-0 EC number: 265-169-7	Distillates, Petroleum, Solvent- Dewaxed Heavy Paraffinic	Not classified	<0.05
CAS number: 64742-53-6 EC number: 265-156-6	Hydrotreated Light Naphthenic Distillates	Not classified	<0.05
CAS number: 64742-52-5 EC number: 265-155-0	Hydrotreated Heavy Naphthenic Distillates	Not classified	<0.05

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CAS number: 64742-54-7 EC number: 265-157-1	Hydrotreated Heavy Paraffinic Distillates	Not classified	<0.05
CAS number: 1344-95-2 EC number: 215-710-8	Calcium Silicate	Not classified	<0.01

Additional information:

According to Note L of the European Commission Directive 67/548/EEC, the classification as a carcinogen for the petroleum distillate substances in this product do not apply because it can be shown that the substances contain less than 3% DMSO extract as measured by IP 346.

Carbon black is classified as a carcinogen only in its respirable form. Since the carbon black in this product is not respirable, the product itself is not classified as a carcinogen in the form presented.

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

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:

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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:

Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas. Ensure adequate ventilation.

Ensure air handling systems are operational.

Wear protective eye wear, gloves and clothing.

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:

Not determined or not applicable.

SECTION 7: Handling and storage

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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/m³
	Heptane, branched, cyclic and linear	426260-76-6	Ceiling limit: 2000 mg/m ³
	Heptane	142-82-5	8-hour TWA: 1000 mg/m³
	Heptane	142-82-5	Ceiling limit (NPK-P): 2000 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 200 mg/m³ (Solvent naphtha)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling limit (NPK-P): 10 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling limit (NPK-P): 1000 mg/m ³ (Solvent naphtha)
	Zinc oxide	1314-13-2	8-hour TWA: 2 mg/m ³ (as Zn)
	Zinc oxide	1314-13-2	Ceiling limit (NPK-P): 5 mg/m ³ (Fumes)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oils, aerosol)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	Ceiling limit (NPK-P): 10 mg/m ³ (Mineral oils, aerosol)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA: 200 mg/m³ (Solvent naphtha)

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	Hydrotreated Light Naphthenic Distillates	64742-53-6	Ceiling limit (NPK-P): 1000 mg/m ⁻ (Solvent naphtha)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-hour TWA: 5 mg/m3 (Mineral oils, aerosol)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	Ceiling limit (NPK-P): 10 mg/m3 (Mineral oils, aerosol)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-hour TWA: 200 mg/m3 (Solven naphtha)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	The ceiling limit (NPK-P): 1000 mg/m3 (Solvent naphtha)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	The ceiling limit (NPK-P): 10 mg/m3 (Mineral oils, aerosol)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-hour TWA: 5 mg/m3 (Mineral oils, aerosol)
	Carbon Black	1333-86-4	Government Decree 361/2007 Sb.: TWA 2.0 mg/m³ (8 hr)
Bulgaria	Heptane	142-82-5	TWA: 1600 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 5.0 mg/m ³
	Zinc oxide	1314-13-2	TWA: 5.0 mg/m ³
	Zinc oxide	1314-13-2	15-minute STEL: 10.0 mg/m ³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	TWA: 3 mg/m ³
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	TWA: 5.0 mg/m3 (Oil - mineral, petroleum)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	TWA: 5.0 mg/m3 (Oil - Mineral, petroleum)
Croatia	Heptane	142-82-5	Maximum (8 hr) allowable concentration: 500 ppm (2085 mg/m ³)
	Zinc oxide	1314-13-2	Maximum (8 hr) allowable concentration: 5 mg/m ³
	Zinc oxide	1314-13-2	Short-term (15 min) allowable concentration: 10 mg/m ³
	Calcium Silicate	1344-95-2	Maximum (8 hr) allowable concentration: 10 mg/m3 (Total dust)
	Calcium Silicate	1344-95-2	Maximum (8 hr) allowable concentration: 4 mg/m3 (Respirable dust)
	Carbon Black	1333-86-4	Dangerous Substances Exposure Limit Values in the Workplace: 3.5 mg/m ³ (8hr); 7.0 mg/m ³ (15 min)
Latvia	Sulfur	7704-34-9	8-hour TWA: 6 mg/m ³
	Heptane	142-82-5	8-hour TWA: 350 mg/m³ (85 ppm)
	Heptane	142-82-5	15-minute STEL: 2085 mg/m ³ (500 ppm)

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	Zinc oxide	1314-13-2	8-hour TWA: 0.5 mg/m ³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oi
Estonia	Heptane	142-82-5	8-hour TWA: 500 ppm (2085 mg/m³)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³
	Calcium Silicate	1344-95-2	8-hour TWA: 10 mg/m3.
Lithuania	Sulfur	7704-34-9	8-hour TWA: 6 mg/m³
	Heptane	142-82-5	8-hour TWA: 2085 mg/m³ (500 ppm)
	Heptane	142-82-5	15-minute STEL: 3128 mg/m ³ (750 ppm)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 1 mg/m ³ (Oil mist, including smoke)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 3 mg/m ³ (Oil mist, including smoke)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA: 1 mg/m ³ (Oil mist, including smoke)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	15-minute STEL: 3 mg/m ³ (Oil mist, including smoke)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-hour TWA: 1 mg/m3 (Oil mist, including smoke)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	15-minute STEL: 3 mg/m3 (Oil mist, including smoke)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-hour TWA: 1 mg/m3 (Oil mist, including smoke)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	15-minute STEL: 3 mg/m3 (Oil mist, including smoke)
Hungary	Heptane	142-82-5	8-hour TWA (ÁK Value): 2000 mg/m ³
	Heptane	142-82-5	60-minute STEL (CK value): 8000 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling Limit (MK Value): 5 mg/m³ [Oil smog (mineral oil)]
	Zinc oxide	1314-13-2	8-hour TWA (ÁK Value): 5 mg/m ³ (Respirable)
	Zinc oxide	1314-13-2	60-minute STEL (CK Value): 20 mg/m ³ (Respirable)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	Ceiling Limit (MK Value): 5 mg/m ³ [Oil smog (mineral oil)]
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	The Ceiling Limit (MK Value): 5 mg/m3 (Oil smog, mineral oil)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	Ceiling Limit (MK Value): 5 mg/m3 (Oil smog, mineral oil)
Romania	Sulfur	7704-34-9	15-min STEL: 6 mg/m ³

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	Heptane	142-82-5	8-hour TWA: 2085 mg/m³ (500 ppm)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m³ (Mineral oils)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 10 mg/m ³ (Mineral oils)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m³ (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m ³ (Fumes)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oils)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	15-minute STEL: 10 mg/m ³ (Mineral oils)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-Hour TWA: 5 mg/m3 (Mineral oils)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	15-minute STEL: 10 mg/m3 (Mineral oils)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-Hour TWA: 5 mg/m3 (Mineral oils)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	15-minute STEL: 10 mg/m3 (Mineral oils)
Malta	Heptane	142-82-5	TWA: 500 ppm (2085 mg/m ³)
Poland	Heptane	142-82-5	8-hour TWA (NDS): 1200 mg/m ³
	Heptane	142-82-5	15-minute STEL (NDSCh): 2000 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA (NDS): 5 mg/m ³ (Highly refined mineral oils with the exception of cutting fluids, Inhalable fraction)
	Zinc oxide	1314-13-2	8-hour TWA (NDS): 5 mg/m³ (Inhalable fraction, as Zn)
	Zinc oxide	1314-13-2	15-minute STEL (NDSCh): 10 mg/m ³ (Inhalable fraction, as Zr
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA (NDS): 5 mg/m ³ (Highly refined mineral oils with the exception of cutting fluids, Inhalable fraction)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-hour TWA (NDS): 5 mg/m3 (Highly refined mineral oils with the exception of cutting fluids, inhalable fraction)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-hour TWA (NDS): 5 mg/m3 (Highly refined mineral oils with the exception of cutting fluids, inhalable fraction)
	Carbon Black	1333-86-4	Dz.U.Poz. 817/2014, Annex 1: TWA (NDS) 4.0 mg/m ³ (8 hr)
Slovakia	Heptane	142-82-5	8-hour TWA (NPEL): 500 ppm (2085 mg/m³)

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	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA (NPEL): 5 ppm (1 mg/m ³) [Liquid mineral oil mist, fumes]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL (NPEL): 15 ppm (3 mg/m ³) [Liquid mineral oil mist, fumes]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 1 mg/m ³ [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	15-minute STEL (NPEL): 1 mg/m ³ [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 0.1 mg/m ³ [Zinc and its inorganic compounds (Respirable fraction)]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 2 mg/m ³ [Zinc and its inorganic compounds (Inhalable fraction)]
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA (NPEL): 5 ppm (1 mg/m ³) [Liquid mineral oil mist, fumes]
	Hydrotreated Light Naphthenic Distillates	64742-53-6	15-minute STEL (NPEL): 15 ppm (3 mg/m ³) [Liquid mineral oil mist, fumes]
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-hour TWA (NPEL): 5 ppm (Liquid mineral oil mist, fumes)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-hour TWA (NPEL): 1 mg/m3 (Liquid mineral oil mist, fumes)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	15-minute STEL (NPEL): 3 mg/m3 (Liquid mineral oil mist, fumes)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	15-minute STEL (NPEL): 15 ppm (Liquid mineral oil mist, fumes)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-hour TWA (NPEL): 5 ppm (Liquid mineral oil mist, fumes)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-hour TWA (NPEL): 1 mg/m3 (Liquid mineral oil mist, fumes)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	15-minute STEL (NPEL): 15 ppm (Liquid mineral oil mist, fumes)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	15-minute STEL (NPEL): 3 mg/m3 (Liquid mineral oil mist, fumes)
	Carbon Black	1333-86-4	Regulation No. 355.2006 concerning protection of workers exposed to chemical agents, Annex 1: TWA (NPEL) 2.0 mg/m ³
Slovenia	Heptane	142-82-5	8-hour TWA: 2085 mg/m³ (500 ppm)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³ [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	STEL: 20 mg/m ³ [Fumes (Respirable fraction)]

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European Union	Heptane	142-82-5	IOEL threshold limit: 2085 mg/m ³ (500 ppm)
	Heptane	142-82-5	SCOEL 8-hour TWA: 500 ppm (2085 mg/m³)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-Hour TWA: 5 mg/m³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA: 5 mg/m ³ (Severely Refined Oils, inhalable)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-Hour TWA: 5 mg/m3 (Severely Refined Mineral Oils, inhalable)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-Hour TWA: 5 mg/m3 (Severely Refined Mineral Oils, inhalable)
Belgium	Heptane	142-82-5	8-hour TWA: 400 ppm (1664 mg/m³)
	Heptane	142-82-5	15-minute STEL: 500 ppm (2085 mg/m ³)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 10 mg/m ³
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m³ (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m ³ (Fumes)
	Zinc oxide	1314-13-2	8-hour TWA: 10 mg/m³ (Dusts)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA: 5 mg/m ³ [Mineral oils (mist)]
	Hydrotreated Light Naphthenic Distillates	64742-53-6	15-minute STEL: 10 mg/m ³ [Mineral oils (mist)]
	Calcium Silicate	1344-95-2	8-hour TWA: 10 mg/m3 (Synthetic)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-Hour TWA: 5 mg/m3 (Mineral oils, mist)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	15-minute STEL: 10 mg/m3 (Mineral oils, mist)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-Hour TWA: 5 mg/m3 (Mineral oils, mist)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	15-minute STEL: 10 mg/m3 (Mineral oils, mist)
	Carbon Black	1333-86-4	Exposure Limit Value: TWA 3.5 mg/m ³ (8 hr)
	Diesel Fuel No. 2	68476-34-6	8-hour TWA: 100 mg/m ³
Denmark	Heptane	142-82-5	TWA: 200 ppm (820 mg/m ³)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 1 mg/m³
	Zinc oxide	1314-13-2	TWA: 4 mg/m ³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	TWA: 1 mg/m ³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	TWA: 1 mg/m3.
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	TWA: 1 mg/m3
	Carbon Black	1333-86-4	Exposure Limits for Substances & Materials: TWA 3.5 mg/m ³
Finland	Heptane	142-82-5	8-hour limit: 300 ppm (1200 mg/m³)
	Heptane	142-82-5	15-minute limit: 500 ppm (2100 mg/m ³)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour limit: 5 mg/m³
	Zinc oxide	1314-13-2	8-hour limit: 2 mg/m ³
	Zinc oxide	1314-13-2	15-minute limit: 10 mg/m ³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour limit: 5 mg/m³
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-hour limit: 5 mg/m3.
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-hour limit: 5 mg/m3
	Carbon Black	1333-86-4	Workplace Exposure Limits: 3.5 mg/m ³ (8 hr); 7.0 mg/m ³ (15 min)
France	Heptane	142-82-5	Time weighted average (VME): 400 ppm (1668 mg/m ³)
	Heptane	142-82-5	Short term exposure limit: 500 ppm (2085 mg/m ³)
	Zinc oxide	1314-13-2	Time weighted average (VME): 5 mg/m ³ (Fumes)
	Zinc oxide	1314-13-2	Time weighted average (VME): 10 mg/m ³ (Dusts)
	Carbon Black	1333-86-4	Threshold Limit Values (VLEP): Time weighted average (VME) 3.5 mg/m ³
Germany	Heptane	142-82-5	AGW limit value: 500 ppm (2100 mg/m ³)
	Heptane	142-82-5	AGW Short term (15 min) exposure limit: 500 ppm (2100 mg/m ³)
Greece	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m³ [Paraffin oi (Mist)]
	Heptane	142-82-5	8-hour TWA:: 500 ppm (2000 mg/m³)
	Heptane	142-82-5	15-minute STEL: 500 ppm (2000 mg/m ³)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³ (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m ³ (Fumes)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA: 5 mg/m³ [Paraffin oi (Mist)]

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Calcium Silicate	1344-95-2	8-hour TWA: 10 mg/m3 (Synthetic, Inhalable)
	Calcium Silicate	1344-95-2	8-hour TWA: 5 mg/m3 (Synthetic, Respirable)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-hour TWA: 5 mg/m3 (Paraffin oil, mist)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-hour TWA: 5 mg/m3 (Paraffin oil, mist)
	Carbon Black	1333-86-4	Decree 307/1986: TWA 3.5mg/m ³ (8 hr); STEL 7.0 mg/m ³ (15 min)
Ireland	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour OEL (TWA): 5 mg/m ³ (Mineral oil, pure, highly and severely refined; Inhalable fraction)
	Heptane	142-82-5	8-hour OEL (TWA): 500 ppm (2085 mg/m³)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour OEL (TWA): 5 mg/m ³ (Mineral oil, pure, highly and severely refined; Inhalable fraction)
	Calcium Silicate	1344-95-2	8-hour TWA: 0.5 mg/m3 (Synthetic non fibrous, Respirable dust)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	Irish 8-hour OEL (TWA): 5 mg/m3 (Mineral oil, pure, highly & severely refined, Inhalable fraction)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-hour OEL (TWA) is: 5 mg/m3 (Mineral oil, pure, highly and severely refined; Inhalable fraction)
	Carbon Black	1333-86-4	2016 Code of Practice for Chemical Agents Regulations 2001: TWA 3.0 mg/m ³ (8 hr) OEL
	Diesel Fuel No. 2	68476-34-6	8-hour OEL (TWA): 100 mg/m ³
Italy	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	Heptane	142-82-5	8-hour TWA: 500 ppm (2085 mg/m³)
	Zinc oxide	1314-13-2	8-hour TWA: 2 mg/m ³ (Respirable fraction)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m ³ (Respirable fraction)
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Calcium Silicate	1344-95-2	8-hour TWA: 1 mg/m3 (Inhalable fraction; particulate matter containing no asbestos and < 1% crystalline silica)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-hour TWA: 5 mg/m3 (Mineral oil, excluding heavy metal, working fluids, pure, highly & severely refined, Inhalable fraction)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-hour TWA: 5 mg/m3 (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	Carbon Black	1333-86-4	Legislative Decree n.81: TWA 3.0 mg/m ³ (8 hr)
	Diesel Fuel No. 2	68476-34-6	8-hour TWA: 100 mg/m ³ (as total hydrocarbons, inhalable fraction and vapor)
Netherlands	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Binding 8-hour TWA: 5 mg/m ³ [Oil mist (Mineral oil)]
	Heptane	142-82-5	Binding 8-hour TWA: 1200 mg/m ³
	Heptane	142-82-5	Binding STEL (15 min): 1600 mg/m ³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	Binding 8-hour TWA: 5 mg/m ³ [Oil mist (Mineral oil)]
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-Hour TWA: 5 mg/m3 (Mineral oils, mist)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-Hour TWA: 5 mg/m3 (Mineral oils, mist)
Portugal	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour exposure limit: 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Short-term exposure limit: 10 mg/m ³
	Heptane	142-82-5	Decree-Law No. 24/2012 8-hour TWA: 500 ppm (2085 mg/m ³)
	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 ³
	Zinc oxide	1314-13-2	Short-term exposure limit: 10 mg/m ³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour exposure limit: 5 mg/m ³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	Short-term exposure limit: 10 mg/m ³
	Calcium Silicate	1344-95-2	8-Hour exposure limit: 10 mg/m3 (particles without asbestos and < 1% crystalline silica)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	8-Hour exposure limit: 5 mg/m3
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	Short-term exposure limit: 10 mg/m3
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-Hour exposure limit: 5 mg/m3
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	Short-term exposure limit: 10 mg/m3
	Carbon Black	1333-86-4	VLE: 3.5 mg/m ³ (8 hr)
	Diesel Fuel No. 2	68476-34-6	8-hour Exposure Limit: 100 mg/m ³
Spain	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour daily exposure limit (VLA_ED): 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL (VLA-EC): 10 mg/m³
	Heptane	142-82-5	8-hour daily exposure limit (VLA- ED): 500 ppm (2085 mg/m ³)
	Zinc oxide	1314-13-2	8-hour daily exposure limit (VLA_ED): 2 mg/m ³
	Zinc oxide	1314-13-2	15-minute STEL (VLA-EC): 10 mg/m ³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	8-hour daily exposure limit (VLA_ED): 5 mg/m ³
	Hydrotreated Light Naphthenic Distillates	64742-53-6	15-minute STEL (VLA-EC): 10 mg/m ³
	Calcium Silicate	1344-95-2	8-hour daily exposure limit: 10 mg/m3 (particles without asbestos and < 1% crystalline silica)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	The 8-hour daily exposure limit (VLA_ED): 5 mg/m3 (This value is applied to refined mineral oil and not to potential additives in its formulation)
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	The 15-minute STEL (VLA-EC): 10 mg/m3 (This value is applied to refined mineral oil and not to potential additives in its formulation)
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	8-hour daily exposure limit (VLA_ED): 5 mg/m3
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	15-minute STEL (VLA-EC): 10 mg/m3
	Carbon Black	1333-86-4	VLA: VLA_ED 3.5 mg/m ³ (8 hr)
Sweden	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Level Limit Value (NGV): 1 mg/m (Oil mist including oil fume)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Short Term Limit (KTV): 3 mg/m ³ (Oil mist including oil fume)
	Heptane	142-82-5	Level Limit Value (NGV): 200 ppm (800 mg/m³)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration	
	Heptane	142-82-5	Short Term Limit (KTV): 300 ppm (1200 mg/m ³)	
	Zinc oxide	1314-13-2	Level Limit Value (NGV): 5 mg/m ³ (Total dust)	
	Hydrotreated Light Naphthenic Distillates	64742-53-6	Level Limit Value (NGV): 1 mg/m ³ (Oil mist including oil fume)	
	Hydrotreated Light Naphthenic Distillates	64742-53-6	Short Term Limit (KTV): 3 mg/m ³ (Oil mist including oil fume)	
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	Level Limit Value (NGV): 1 mg/m3 (Oil mist including oil fume)	
	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	Short Term Limit (KTV): 3 mg/m3 (Oil mist including oil fume)	
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	Level Limit Value (NGV): 1 mg/m3 (Oil mist including oil fume)	
	Hydrotreated Heavy Paraffinic Distillates	64742-54-7	Short Term Limit (KTV): 3 mg/m3 (Oil mist including oil fume)	
United Kingdom	Heptane	142-82-5	TWA: 500 ppm (2085 mg/m ³)	
	Calcium Silicate	1344-95-2	TWA: 10 mg/m3 (Inhalable dust)	
	Calcium Silicate	1344-95-2	TWA is: 4 mg/m3 (Respirable dust)	
	Carbon Black	1333-86-4	WEL: TWA 3.5 mg/m ³ ; STEL 7.0 mg/m ³	
Luxembourg	Heptane	142-82-5	TWA: 500 ppm (2085 mg/m ³)	
Austria	Heptane	142-82-5	TWA: 2000 mg/m ³ (500 ppm)	
	Heptane	142-82-5	STEL: 8000 mg/m ³ (2000 ppm)	
Cyprus	Zinc oxide	1314-13-2	8-hour TWA: 5.0 mg/m ³ (Fumes)	
	Carbon Black	1333-86-4	Control of factory atmosphere and dangerous substances in factories regulation: TWA 3.5 mg/m ³ (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

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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.

Wear appropriate clothing to prevent any possibility of skin contact.

Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Always seek advice from glove suppliers.

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.

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.

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

Appearance	Black Viscous Liquid
Odor	Strong Solvent
Odor threshold	Not determined or not available.
рН	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	190°F (88°C)
Flash point (closed cup)	15°F (-9°C)
Evaporation rate	>1 (n-BuAC=1)
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	6.7% (V)
Lower flammability/explosive limit	1.2% (V)
Vapor pressure	119 mmHg at 20°C (68°F)

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Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	0.74 g/cm ³ (6.26 lbs./gal) at 20°C (68°F)
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	750 cps
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.
Other information	
VOC	619 g/L

SECTION 10: Stability and reactivity

10.1 Reactivity:

9.2

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:

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:

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No data available.

Substance data:

Name	Result
Heptane	Causes skin irritation.
Sulfur	Irritating to the skin.
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:

May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Name	Result
Benzothiazole Disulfide	May cause sensitization by skin contact.

Carcinogenicity

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

Product data: No data available.

Substance data:

Name	Species	Result
Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	Not applicable	The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.
Hydrotreated Light Naphthenic Distillates	Not applicable	The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.
Distillates (petroleum), hydrotreated heavy naphthenic	Not applicable	The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346
Hydrotreated Heavy Paraffinic Distillates	Not applicable	The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.
Carbon Black	Not applicable	The IARC carcinogenic classification and California Proposition 65 Warning only apply to airborne, unbound particles of respirable size of Carbon Black.

International Agency for Research on Cancer (IARC):

Name	Classification
Natural Rubber	Group 3 - Not classifiable as to its carcinogenicity to humans

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Name	Classification
Carbon Black	Group 2B - Possibly carcinogenic to humans
Diesel Fuel No. 2	Group 2B - Possibly carcinogenic to humans

National Toxicology Program (NTP): None of the ingredients are listed.

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: No data available.

Aspiration toxicity

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

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.

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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:

Name	Result
Heptane	Moderately Mobile (log Koc: 2.38)

12.5 Results of PBT and vPvB assessment

This substance is not PBT.	
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

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applicable regulatory entities

SECTION 14: Transport information

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

UN number	1133
UN proper shipping name	Adhesives
UN transport hazard class(es)	3
Packing group	П
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	1133
UN proper shipping name	Adhesives
UN transport hazard class(es)	3
Packing group	П
Environmental hazards	Marine Pollutant (Heptane and Heptane, Branched, cyclic and linear)
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

-	
UN number	1133
UN proper shipping name	Adhesives
UN transport hazard class(es)	3
Packing group	11
Environmental hazards	Marine Pollutant (Heptane and Heptane, Branched, cyclic and linear)
Special precautions for user	None

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

UN number	1133
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)

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Special precautions for user	None

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	
Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

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

European regulations

Inventory listing (EINECS):

7704-34-9	Sulfur	Listed
57-11-4	Stearic acid	Listed
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Listed
1314-13-2	Zinc oxide	Listed
64742-53-6	Hydrotreated Light Naphthenic Distillates	Listed
1344-95-2	Silica, crystalline quartz	Listed
64742-65-0	Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	Listed
64742-54-7	Hydrotreated Heavy Paraffinic Distillates	Listed
9003-31-0	Natural Rubber	Not Listed
1333-86-4	Carbon Black	Listed
426260-76-6	Heptane, branched, cyclic and linear	Not Listed
142-82-5	Heptane	Listed
68476-34-6	Diesel Fuel No. 2	Listed
120-78-5	Benzothiazole Disulfide	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.

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Carbon Black	1333-86-4	Non-hazardous to water.
Diesel Fuel No. 2	68476-34-6	2
Stearic acid	57-11-4	Non-hazardous to water.
Calcium Silicate	1344-95-2	1
Sulfur	7704-34-9	1
Distillates, Petroleum, Solvent-Dewaxed Heavy Paraffinic	64742-65-0	1

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Ingredient Name	CAS	Class	
Hydrotreated Light Naphthenic Distillates	64742-53-6	1	
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	1	
Hydrotreated Heavy Paraffinic Distillates	64742-54-7	1	
Zinc oxide	1314-13-2	2	
Benzothiazole Disulfide	120-78-5	2	
Heptane, branched, cyclic and linear	426260-76-6	Not applicable.	
Heptane	142-82-5	2	
Natural Rubber	9003-31-0	Not applicable.	

Other regulations

Germany TA Luft: None of the ingredients are listed.

Germany MAK: Heptane: 8-hour TWA: 500 ppm (2100 mg/m³), Zinc oxide: 8-hour TWA: 0.1 mg/m³ [Zinc and its inorganic compounds (respirable fraction)], Zinc oxide: 8-hour TWA: 2 mg/m³ [Zinc and its inorganic compounds (inhalable fraction)]

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
Skin sensitization, category 1	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	
Aquatic Chronic 1; H410	Chronic aquatic hazard, category 1	
Skin Sens. 1; H317	Skin sensitization, category 1	

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Carc. 2; H351	Carcinogenicity, category 2

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
H317	May cause an allergic skin reaction
H351	Suspected of causing 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: 06.07.2017 Revision date: 06.11.2019

End of Safety Data Sheet