



Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH)

Initial preparation date: 06.28.2016

Revision date: 10.16.2020

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B Compound

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

1.1 Product identifier

Product Name: B Compound

Product code: 858B, 859B

Additional information: Rev 3

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

Relevant identified uses: Rubber Filler

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
Koeyleuken 16
2300 Turnhout, Belgium
00 32 1442 3103
techeurope@trc4r.com

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

Aspiration hazard, category 1

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

Specific target organ toxicity - repeated exposure, category 2

Reproductive toxicity, category 2

Chronic aquatic hazard, category 3

Hazard-determining components of labeling:

Zinc oxide

Toluene

2.2 Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.

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H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H361 Suspected of damaging fertility or the unborn child.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash skin thoroughly after handling.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

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

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

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

P242 Use only non-sparking tools.

P273 Avoid release to the environment.

P243 Take precautionary measures against static discharge.

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

P201 Obtain special instructions before use.

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

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

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

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

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

P331 Do NOT induce vomiting.

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

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

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

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

P501 Dispose of contents/container as instructed in Section 13.

Supplemental label information:

EUH208 Contains 2,2' Dibenzamido diphenyl disulphide. May produce an allergic reaction.

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: 108-88-3 EC number: 203-625-9	Toluene	Asp. Tox. 1; H304 Skin Irrit. 2 ; H315 Stot SE 3; H336 Stot RE 2; H373 Repr. 2; H361 Flam. Liq. 2; H225	30-50

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CAS number: 1333-86-4 EC number: 215-609-9	Bounded Carbon Black	Not classified	10-30
CAS number: 1314-13-2 EC number: 215-222-5 REACH: 01-2119463881-32-0039	Zinc oxide	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<5
CAS number: 8042-47-5 EC number: 232-455-8	White Mineral Oil	Not classified	<1
CAS number: 68610-51-5 EC number: 271-867-2	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Repr. 2; H361 Aquatic Chronic 4; H413 Skin Irrit. 2 ; H315 Stot SE 3; H335 Eye Irrit. 2; H319	<1
CAS number: 57-11-4 EC number: 200-313-4	Stearic acid	Not classified	<1
CAS number: 64742-65-0 EC number: 265-169-7	Distillates (petroleum), solvent- dewaxed heavy paraffinic	Not classified	<1
CAS number: 64742-52-5 EC number: 265-155-0 REACH: 01-2119467170-45-0055	Distillates (petroleum), hydrotreated heavy naphthenic	Not classified	<1
CAS number: 64742-54-7 EC number: 265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic	Not classified	<1
CAS number: 64742-53-6 EC number: 265-156-6	Distillates (petroleum), hydrotreated light naphthenic	Not classified	<1
CAS number: 7704-34-9 EC number: 231-722-6	Sulfur	Skin Irrit. 2 ; H315	<0.5
CAS number: 135-57-9 EC number: 205-201-9	2,2' Dibenzamido diphenyl disulphide	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<0.5

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Additional information:

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.

According to Note L of the European Directive 67/548/CEE, the "distillates (petroleum)" substances should not be classified as "carcinogenic" ingredients, because it has been shown that the substances contain less than 3% DMSO extract as measured by IP 346.

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:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention

Following skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

Following eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Skin contact may result in redness, pain, burning and inflammation

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis

Inhalation may have adverse effects on the central nervous system. Symptoms may include drowsiness, dizziness, headache, nausea and lowering of consciousness. Acute overexposure via inhalation may result in respiratory distress, confusion and unconsciousness

May be fatal if swallowed and enters airways. Aspiration may cause pulmonary oedema and pneumonitis. Symptoms may include shortness of breath, dry cough and irritation of the nose, eyes, lips, mouth and throat

Delayed symptoms and effects:

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of pulmonary edema may be delayed.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Aspiration of this product following ingestion requires emergency medical treatment.

Notes for the doctor:

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

5.2 Special hazards arising from the substance or mixture:

Highly flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

5.3 Advice for firefighters

Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

6.4 Reference to other sections:

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

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

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explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

7.3 Specific end use(s):

Refer to Section 1 (Recommended Use).

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
Hungary	White Mineral Oil	8042-47-5	Ceiling Limit (MK Value): 5 mg/m ³ [Oil smog (mineral oil)]
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Ceiling Limit (MK Value): 5 mg/m ³ (Oil smog, mineral oil)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Ceiling limit: 5 mg/m ³ (Oil smog [mineral oil])
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling Limit (MK Value): 5 mg/m ³ [Oil smog (mineral oil)]
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Ceiling limit: 5 mg/m ³ (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)
	Toluene	108-88-3	8-hour TWA: 190 mg/m ³
	Toluene	108-88-3	60-minute STEL: 380 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Ceiling Limit (MK Value): 5 mg/m ³ [Oil smog (mineral oil)]
	Toluene	108-88-3	8-hour TWA (ÁK Value): 190 mg/m ³
	Toluene	108-88-3	60-minute STEL (CK Value): 380 mg/m ³
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	The Ceiling Limit (MK Value): 5 mg/m ³ (Oil smog, mineral oil)
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling Limit (MK Value): 5 mg/m ³ [Oil smog (mineral oil)]	
Latvia	Sulfur	7704-34-9	8-hour TWA: 6 mg/m ³

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	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oil)
	Zinc oxide	1314-13-2	8-hour TWA: 0.5 mg/m ³
	Toluene	108-88-3	8-hour TWA: 14 ppm
	Toluene	108-88-3	15-minute STEL: 40 ppm
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oil)
	Toluene	108-88-3	8-hour TWA: 50 mg/m ³ (14 ppm)
	Toluene	108-88-3	15-minute STEL: 150 mg/m ³ (40 ppm)
Bulgaria	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	TWA: 5 mg/m ³ (Oil - mineral, petroleum)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TWA: 5.0 mg/m ³ (Oil - Mineral, petroleum)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 5.0 mg/m ³
	White Mineral Oil	8042-47-5	TWA: 5.0 mg/m ³ (petroleum)
	Zinc oxide	1314-13-2	15-minute STEL: 10.0 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA: 5 mg/m ³ (Oil - mineral, petroleum)
	Toluene	108-88-3	TWA: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Zinc oxide	1314-13-2	TWA: 5.0 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA: 5.0 mg/m ³
	Toluene	108-88-3	TWA: 192.0 mg/m ³ (50 ppm)
	Toluene	108-88-3	15-minute STEL: 384.0 mg/m ³ (100 ppm)
	White Mineral Oil	8042-47-5	TWA: 5.0 mg/m ³ (petroleum)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	TWA: 5.0 mg/m ³ (Oil - mineral, petroleum)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 5.0 mg/m ³
Lithuania	Stearic acid	57-11-4	8-hour TWA: 5 mg/m ³
	White Mineral Oil	8042-47-5	8-hour TWA: 1 mg/m ³ (Oil mist, including smoke)
	Sulfur	7704-34-9	8-hour TWA: 6 mg/m ³
	White Mineral Oil	8042-47-5	15-minute STEL: 3 mg/m ³ (Oil mist, including smoke)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour TWA: 1 mg/m ³ (Oil mist, including smoke)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 1 mg/m ³ (Oil mist, including smoke)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	15-minute STEL: 3 mg/m ³ (Oil mist, including smoke)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	15-minute STEL: 3 mg/m ³ (Oil mist, including smoke)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	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)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 1 mg/m ³ (Oil mist, including smoke)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	15-minute STEL: 3 mg/m ³ (Oil mist, including smoke)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Toluene	108-88-3	8-hour TWA: 192 mg/m ³ (50 ppm)
	Toluene	108-88-3	15-minute STEL: 384 mg/m ³ (100 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)
Czech Republic	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Ceiling limit: 10 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 200 mg/m ³ (Solvent naphtha)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	The ceiling limit (NPK-P): 10 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour TWA: 5 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Ceiling limit: 1000 mg/m ³ (Solvent naphtha)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 200 mg/m ³ (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)
	Bounded Carbon Black	1333-86-4	Government Decree 361/2007 Sb.: TWA 2.0 mg/m ³ (8 hr)
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m ³ (aerosol)
	White Mineral Oil	8042-47-5	Ceiling limit (NPK-P): 10 mg/m ³ (aerosol)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Ceiling limit: 10 mg/m ³ (Mineral oils, aerosol)
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 200 mg/m ³ (Solvent naphtha)	

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	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Ceiling limit: 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)
	Toluene	108-88-3	8-hour TWA: 200 mg/m ³
	Toluene	108-88-3	Ceiling limit: 500 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Ceiling limit (NPK-P): 10 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Ceiling limit (NPK-P): 1000 mg/m ³ (Solvent naphtha)
	Toluene	108-88-3	Ceiling limit (NPK-P): 500 mg/m ³
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Ceiling limit (NPK-P): 10 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	The ceiling limit (NPK-P): 1000 mg/m ³ (Solvent naphtha)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 200 mg/m ³ (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)
Belgium	Stearic acid	57-11-4	8-hour TWA: 10 mg/m ³ (as stearates)
	Bounded Carbon Black	1333-86-4	Exposure Limit Value: TWA 3.5 mg/m ³ (8 hr)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 mg/m ³ (Mineral oils, mist)
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m ³ [Mineral oils (mist)]
	White Mineral Oil	8042-47-5	15-minute STEL: 10 mg/m ³ [Mineral oils (mist)]
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	15-minute STEL: 10 mg/m ³ (Mineral oils, mist)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-Hour TWA: 5 mg/m ³ (Mineral oils, mist)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	15-minute STEL: 10 mg/m ³ (Mineral oils, mist)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 10 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oils [mist])
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	15-minute STEL: 10 mg/m ³ (Mineral oils [mist])
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³ (Fumes)

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	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m ³ (Fumes)
	Zinc oxide	1314-13-2	8-hour TWA: 10 mg/m ³ (Dusts)
	Toluene	108-88-3	8-hour TWA: 20 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ [Mineral oils (mist)]
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	15-minute STEL: 10 mg/m ³ [Mineral oils (mist)]
	Toluene	108-88-3	8-hour TWA: 20 ppm (77 mg/m ³)
	Toluene	108-88-3	15-minute STEL: 100 ppm (384 mg/m ³)
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m ³ [Mineral oils (mist)]
	White Mineral Oil	8042-47-5	15-minute STEL: 10 mg/m ³ [Mineral oils (mist)]
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-Hour TWA: 5 mg/m ³ (Mineral oils, mist)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 10 mg/m ³
Ireland	Stearic acid	57-11-4	8-hour TWA: 10 mg/m ³ (as stearates, except lead stearate)
	Bounded Carbon Black	1333-86-4	2016 Code of Practice for Chemical Agents Regulations 2001: TWA 3.0 mg/m ³ (8 hr) OEL
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 mg/m ³ (Mineral oil, pure, highly and severely refined, inhalable fraction)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour OEL (TWA) is: 5 mg/m ³ (Mineral oil, pure, highly and severely refined; Inhalable fraction)
	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)
	White Mineral Oil	8042-47-5	8-hour OEL (TWA): 5 mg/m ³ (Mineral oil, pure, highly and severely refined; Inhalable fraction)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oil, pure, highly and severely refined, inhalable fraction)
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour OEL (TWA): 5 mg/m ³ (Mineral oil, pure, highly and severely refined; Inhalable fraction)

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B Compound

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Toluene	108-88-3	8-hour OEL (TWA): 50 ppm (192 mg/m ³)
	Toluene	108-88-3	15-minute OEL (STEL): 100 ppm (384 mg/m ³)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Irish 8-hour OEL (TWA): 5 mg/m ³ (Mineral oil, pure, highly & severely refined, Inhalable fraction)
	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)
Poland	White Mineral Oil	8042-47-5	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: 5 mg/m ³ (Highly refined mineral oils with the exception of cutting fluids, inhalable fraction)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour TWA (NDS): 5 mg/m ³ (Highly refined mineral oils with the exception of cutting fluids, inhalable fraction)
	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)
	Bounded Carbon Black	1333-86-4	Dz.U.Poz. 817/2014, Annex 1: TWA (NDS) 4.0 mg/m ³ (8 hr)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 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/m ³ (Inhalable fraction, as Zn)
	Zinc oxide	1314-13-2	15-minute STEL (NDSch): 10 mg/m ³ (Inhalable fraction, as Zn)
	Toluene	108-88-3	8-hour TWA: 100 mg/m ³
	Toluene	108-88-3	15-minute STEL: 200 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA (NDS): 5 mg/m ³ (Highly refined mineral oils with the exception of cutting fluids, Inhalable fraction)
	Toluene	108-88-3	8-hour TWA (NDS): 100 mg/m ³
	Toluene	108-88-3	15-minute STEL (NDSch): 200 mg/m ³
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA (NDS): 5 mg/m ³ (Highly refined mineral oils with the exception of cutting fluids, inhalable fraction)

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	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)
Romania	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m ³ (Mineral oils)
	Sulfur	7704-34-9	15-min STEL: 6 mg/m ³ (dust)
	White Mineral Oil	8042-47-5	15-minute STEL: 10 mg/m ³ (Mineral oils)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-Hour TWA: 5 mg/m ³ (Mineral oils)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 mg/m ³ (Mineral oils)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	15-minute STEL: 10 mg/m ³ (Mineral oils)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	15-minute STEL: 10 mg/m ³ (Mineral oils)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ (Mineral oils)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 10 mg/m ³ (Mineral oils)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oils)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	15-minute STEL: 10 mg/m ³ (Mineral oils)
	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)
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Toluene	108-88-3	8-hour TWA: 192 mg/m ³ (50 ppm)
	Toluene	108-88-3	15-minute STEL: 384 mg/m ³ (100 ppm)
	Sulfur	7704-34-9	15-min STEL: 6 mg/m ³
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-Hour TWA: 5 mg/m ³ (Mineral oils)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ (Mineral oils)
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 10 mg/m ³ (Mineral oils)	
Italy	Stearic acid	57-11-4	8-hour TWA: 3 mg/m ³ [Stearates (except stearates of toxic metals), Respirable fraction]
	Stearic acid	57-11-4	8-hour TWA: 10 mg/m ³ [Stearates (except stearates of toxic metals), Inhalable fraction]
	Bounded Carbon Black	1333-86-4	Legislative Decree n.81: TWA 3.0 mg/m ³ (8 hr)

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	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 mg/m ³ (Mineral oil, pure, highly and severely refined, inhalable fraction)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour TWA: 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	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)
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction)
	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)
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	Toluene	108-88-3	8-hour TWA: 50 ppm (192 mg/m ³)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 mg/m ³ (Mineral oil, excluding heavy metal, working fluids, pure, highly & severely refined, Inhalable fraction)
	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)
Portugal	Stearic acid	57-11-4	8-hour Exposure Limit: 10 mg/m ³ (as stearates)
	Bounded Carbon Black	1333-86-4	VLE: 3.5 mg/m ³ (8 hr)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour exposure limit: 5 mg/m ³
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Short-term exposure limit: 10 mg/m ³
	White Mineral Oil	8042-47-5	NP 1796-2007 8-hour exposure limit: 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour exposure limit: 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour exposure limit: 5 mg/m ³

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	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Short-term exposure limit: 10 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Short-term exposure limit: 10 mg/m ³
	White Mineral Oil	8042-47-5	NP 1796-2007 Short-term exposure limit: 10 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction)
	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
	Toluene	108-88-3	8-hour TWA: 50 ppm (Decree-Law No. 24/2012)
	Toluene	108-88-3	15-minute STEL: 100 ppm (Decree-Law No. 24/2012)
	Toluene	108-88-3	8-hour exposure limit: 20 ppm (NP 1796-2014)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour exposure limit: 5 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Short-term exposure limit: 10 mg/m ³
	Toluene	108-88-3	8-hour TWA: 50 ppm (192 mg/m ³)
	Toluene	108-88-3	15-minute STEL: 100 ppm (384 mg/m ³)
	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
Croatia	Bounded 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)
	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
	Toluene	108-88-3	8-hour allowable concentration: 50 ppm
	Toluene	108-88-3	15-minute allowable concentration: 100 ppm
	Toluene	108-88-3	Maximum (8 hr) allowable concentration: 50 ppm (192 mg/m ³)
	Toluene	108-88-3	Short-term (15 min) allowable concentration: 100 ppm (384 mg/m ³)

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Spain	Stearic acid	57-11-4	8-hour daily exposure limit (VLA_ED): 10 mg/m ³ [Stearates (except stearates of toxic metals)]
	Bounded Carbon Black	1333-86-4	VLA: VLA_ED 3.5 mg/m ³ (8 hr)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour daily exposure limit: 5 mg/m ³ (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	15-minute STEL: 10 mg/m ³ (This value is applied to refined mineral oil and not to potential additives in its formulation)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour daily exposure limit (VLA_ED): 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour daily exposure limit (VLA_ED): 5 mg/m ³
	White Mineral Oil	8042-47-5	8-hour daily exposure limit (VLA_ED): 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	15-minute STEL (VLA-EC): 10 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL (VLA-EC): 10 mg/m ³
	White Mineral Oil	8042-47-5	15-minute STEL (VLA-EC): 10 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Refined mineral oil, mist)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	15-minute STEL: 10 mg/m ³ (Refined mineral oil, mist)
	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
	Toluene	108-88-3	8-hour daily exposure limit: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour daily exposure limit (VLA_ED): 5 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	15-minute STEL (VLA-EC): 10 mg/m ³
	Toluene	108-88-3	8-hour daily exposure limit (VLA-ED): 50 ppm (192 mg/m ³)
	Toluene	108-88-3	15-minute STEL (VLA-EC): 100 ppm (384 mg/m ³)
White Mineral Oil	8042-47-5	8-hour daily exposure limit (VLA_ED): 5 mg/m ³	
White Mineral Oil	8042-47-5	15-minute STEL (VLA-EC): 10 mg/m ³	

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	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	The 8-hour daily exposure limit (VLA_ED): 5 mg/m ³ (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/m ³ (This value is applied to refined mineral oil and not to potential additives in its formulation)
	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/m ³
Sweden	Stearic acid	57-11-4	Level Limit Value (NGV): 5 mg/m ³ (as stearates, total dust)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Level limit value: 1 mg/m ³ (Oil mist, including oil fume)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Short term limit value: 3 mg/m ³ (Oil mist, including oil fume)
	White Mineral Oil	8042-47-5	Level Limit Value (NGV): 1 mg/m ³ (Oil mist including oil fume)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Level Limit Value (NGV): 1 mg/m ³ (Oil mist including oil fume)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Level Limit Value (NGV): 1 mg/m ³ (Oil mist including oil fume)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Short Term Limit (KTV): 3 mg/m ³ (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)
	White Mineral Oil	8042-47-5	Short Term Limit (KTV): 3 mg/m ³ (Oil mist including oil fume)
	Bounded Carbon Black	1333-86-4	8-hour TWA: 3 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Level limit value: 1 mg/m ³ (Oil mist, including oil fume)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Short term limit value: 3 mg/m ³ (Oil mist, including oil fume)
	Zinc oxide	1314-13-2	Level Limit Value (NGV): 5 mg/m ³ (Total dust)
	Toluene	108-88-3	Level limit value: 50 ppm
	Toluene	108-88-3	Ceiling limit: 100 ppm
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Level Limit Value (NGV): 1 mg/m ³ (Oil mist including oil fume)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Short Term Limit (KTV): 3 mg/m ³ (Oil mist including oil fume)
	Toluene	108-88-3	Level Limit Value (NGV): 50 ppm (192 mg/m ³)
	Toluene	108-88-3	Ceiling Limit Value (TGV): 100 ppm (384 mg/m ³)
	White Mineral Oil	8042-47-5	Level Limit Value (NGV): 1 mg/m ³ (Oil mist including oil fume)

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	White Mineral Oil	8042-47-5	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/m ³ (Oil mist including oil fume)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Short Term Limit (KTV): 3 mg/m ³ (Oil mist including oil fume)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Level Limit Value (NGV): 1 mg/m ³ (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)
Cyprus	Bounded Carbon Black	1333-86-4	Control of factory atmosphere and dangerous substances in factories regulation: TWA 3.5 mg/m ³ (8 hr)
	Zinc oxide	1314-13-2	8-hour TWA: 5.0 mg/m ³ (Fumes)
Slovakia	White Mineral Oil	8042-47-5	8-hour TWA (NPEL): 5 ppm (1 mg/m ³) [Liquid mineral oil mist, fumes]
	Bounded 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
	White Mineral Oil	8042-47-5	15-minute STEL (NPEL): 15 ppm (3 mg/m ³) [Liquid mineral oil mist, fumes]
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour TWA (NPEL): 5 ppm (Liquid mineral oil mist, fumes)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 ppm (liquid mineral oil mist, fumes)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	15-minute STEL: 15 ppm (Liquid mineral oil mist, fumes)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour TWA (NPEL): 1 mg/m ³ (Liquid mineral oil mist, fumes)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	15-minute STEL (NPEL): 15 ppm (Liquid mineral oil mist, fumes)
	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 paraffinic	64742-54-7	15-minute STEL (NPEL): 3 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]
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 1 mg/m ³ (5 ppm [Liquid mineral oil mist, fumes])
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	15-minute STEL: 3 mg/m ³ (15 ppm [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)]

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	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)]
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA (NPEL): 5 ppm (1 mg/m ³) [Liquid mineral oil mist, fumes]
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	15-minute STEL (NPEL): 15 ppm (3 mg/m ³) [Liquid mineral oil mist, fumes]
	Toluene	108-88-3	8-hour TWA (NPEL): 50 ppm (192 mg/m ³)
	Toluene	108-88-3	15-minute STEL (NPEL): 100 ppm (384 mg/m ³)
	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/m ³ (Liquid mineral oil mist, fumes)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	15-minute STEL (NPEL): 3 mg/m ³ (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)
	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]
Denmark	Bounded Carbon Black	1333-86-4	Exposure Limits for Substances & Materials: TWA 3.5 mg/m ³
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	TWA: 1 mg/m ³
	White Mineral Oil	8042-47-5	TWA: 1 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 1 mg/m ³
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TWA: 1 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA: 1 mg/m ³ (Mineral oils)
	Bounded Carbon Black	1333-86-4	STEL: 7 mg/m ³
	Zinc oxide	1314-13-2	TWA: 4 mg/m ³
	Toluene	108-88-3	TWA: 25 ppm
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA: 1 mg/m ³
	Toluene	108-88-3	TWA: 25 ppm (94 mg/m ³)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 1 mg/m ³
European Union	White Mineral Oil	8042-47-5	SCOEL 8-hour TWA: 5 mg/m ³ (severely refined mineral oils, inhalable)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 mg/m ³ (Severely refined mineral oils, inhalable)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-Hour TWA: 5 mg/m ³ (Severely Refined Mineral Oils, inhalable)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-Hour TWA: 5 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (SCOELs [Severely refined mineral oils, inhalable])
	Toluene	108-88-3	Threshold limit: 50 ppm (IOEL)
	Toluene	108-88-3	STEL: 100 ppm (IOEL)
	Toluene	108-88-3	8-hour TWA: 50 ppm (SCOEL)
	Toluene	108-88-3	15-minute STEL: 100 ppm (SCOEL)
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Severely Refined Oils, inhalable)
	Toluene	108-88-3	Threshold limit: 192 mg/m ³ (50 ppm)
	Toluene	108-88-3	STEL: 384 mg/m ³ (100 ppm)
	White Mineral Oil	8042-47-5	SCOEL 8-hour TWA: 5 mg/m ³ (severely refined mineral oils, inhalable)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-Hour TWA: 5 mg/m ³ (Severely Refined Mineral Oils, inhalable)
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-Hour TWA: 5 mg/m ³	
Finland	Bounded Carbon Black	1333-86-4	Workplace Exposure Limits: 3.5 mg/m ³ (8 hr); 7.0 mg/m ³ (15 min)
	White Mineral Oil	8042-47-5	8-hour limit: 5 mg/m ³
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour limit: 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour limit: 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour limit: 5 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Oil mist, mineral)
	Zinc oxide	1314-13-2	8-hour limit: 2 mg/m ³
	Zinc oxide	1314-13-2	15-minute limit: 10 mg/m ³
	Toluene	108-88-3	8-hour limit: 25 ppm
	Toluene	108-88-3	15-minute limit: 100 ppm
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour limit: 5 mg/m ³
	Toluene	108-88-3	8-hour limit: 25 ppm (81 mg/m ³)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Toluene	108-88-3	15-minute limit: 100 ppm (380 mg/m ³)
	White Mineral Oil	8042-47-5	8-hour limit: 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour limit: 5 mg/m ³
France	Bounded Carbon Black	1333-86-4	Threshold Limit Values (VLEP): Time weighted average (VME) 3.5 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)
	Toluene	108-88-3	TWA: 20 ppm
	Toluene	108-88-3	STEL: 100 ppm
	Toluene	108-88-3	Time weighted average (VME): 20 ppm (76.8 mg/m ³)
	Toluene	108-88-3	Short term exposure limit: 100 ppm (384 mg/m ³)
Greece	Bounded Carbon Black	1333-86-4	Decree 307/1986: TWA 3.5mg/m ³ (8 hr); STEL 7.0 mg/m ³ (15 min)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 mg/m ³ (Paraffin oil [mist])
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-hour TWA: 5 mg/m ³ (Paraffin oil, mist)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ [Paraffin oil (Mist)]
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m ³ [Paraffin oil (Mist)]
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Paraffin oil [mist])
	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)
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ [Paraffin oil (Mist)]
	Toluene	108-88-3	8-hour TWA: 50 ppm (192 mg/m ³)
	Toluene	108-88-3	15-minute limit: 100 ppm (384 mg/m ³)
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m ³ [Paraffin oil (Mist)]
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 mg/m ³ (Paraffin oil, mist)
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ [Paraffin oil (Mist)]	
Germany	White Mineral Oil	8042-47-5	AGW limit value: 5 mg/m ³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	White Mineral Oil	8042-47-5	AGW Short term (15 min) exposure limit: 20 mg/m ³
	Toluene	108-88-3	Limit value: 50 ppm
	Toluene	108-88-3	15-minute STEL: 200 ppm
	Toluene	108-88-3	DFG Limit value: 50 mL/m ³ (190 mg/m ³)
	Toluene	108-88-3	DFG Short term (15 min) limit value: 200 mL/m ³ (760 mg/m ³)
	Toluene	108-88-3	AGS Limit value: 200 mg/m ³
	Toluene	108-88-3	AGS Short term (15 min) limit value: 400 mg/m ³
	White Mineral Oil	8042-47-5	AGW limit value: 5 mg/m ³
	White Mineral Oil	8042-47-5	AGW Short term (15 min) exposure limit: 20 mg/m ³
Estonia	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	STEL: 100 ppm
	Toluene	108-88-3	8-hour TWA: 50 ppm (192 mg/m ³)
	Toluene	108-88-3	STEL: 100 ppm (384 mg/m ³)
Netherlands	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	8-hour TWA: 5 mg/m ³ (Mineral oils, mist)
	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	8-Hour TWA: 5 mg/m ³ (Mineral oils, mist)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Binding 8-hour TWA: 5 mg/m ³ [Oil mist (Mineral oil)]
	White Mineral Oil	8042-47-5	Binding 8-hour TWA: 5 mg/m ³ [Oil mist (Mineral oil)]
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	8-hour TWA: 5 mg/m ³ (Oil mist [mineral oil])
	Toluene	108-88-3	Binding 8-hour TWA: 150 mg/m ³
	Toluene	108-88-3	Binding 15-minute STEL: 384 mg/m ³
	Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	Binding 8-hour TWA: 5 mg/m ³ [Oil mist (Mineral oil)]
	Toluene	108-88-3	Binding STEL: 384 mg/m ³ (STEL time period is 15 minutes)
	White Mineral Oil	8042-47-5	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/m ³ (Mineral oils, mist)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Binding 8-hour TWA: 5 mg/m ³ [Oil mist (Mineral oil)]
United Kingdom	Bounded Carbon Black	1333-86-4	WEL: TWA 3.5 mg/m ³ ; STEL 7.0 mg/m ³
	Toluene	108-88-3	TWA: 50 ppm
	Toluene	108-88-3	STEL: 100 ppm
	Toluene	108-88-3	TWA: 50 ppm (191 mg/m ³)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Toluene	108-88-3	STEL: 100 ppm (384 mg/m ³)
Malta	Toluene	108-88-3	TWA: 50 ppm
	Toluene	108-88-3	STEL: 100 ppm
	Toluene	108-88-3	TWA: 50 ppm (192 mg/m ³)
	Toluene	108-88-3	STEL: 100 ppm (384 mg/m ³)
Slovenia	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)]
	Toluene	108-88-3	8-hour TWA: 50 ppm
	White Mineral Oil	8042-47-5	8-hour TWA: 5 mg/m ³
	White Mineral Oil	8042-47-5	15-minute STEL: 20 mg/m ³
	Toluene	108-88-3	8-hour TWA: 192 mg/m ³ (50 ppm)
	Toluene	108-88-3	STEL: 384 mg/m ³ (100 ppm)
Austria	Toluene	108-88-3	MAK-TWA: 50 ppm
	Toluene	108-88-3	MAK-STEL: 100 ppm
	Zinc oxide	1314-13-2	TWA: 5 mg/m ³
Luxembourg	Toluene	108-88-3	TWA: 50 ppm
	Toluene	108-88-3	STEL: 100 ppm
	Toluene	108-88-3	TWA: 50 ppm (192 mg/m ³)
	Toluene	108-88-3	STEL: 100 ppm (384 mg/m ³)

Biological limit values:

Substance	Identifier	Determinant	Sampling time	Permissible limits
Toluene	108-88-3	[Austria] Toluene	None. [Specimen: Blood]	25 µg/100mL
Toluene	108-88-3	[Austria] o-Cresol	None. [Specimen: Urine]	0.8 mg/L
Toluene	108-88-3	[Croatia] Toluene	End of shift. [Specimen: Blood]	1.0 mg/L (10.85 µmol/L)
Toluene	108-88-3	[Croatia] None	During the exposure. [Specimen: End-exhaled air]	20 ppm (0.83 µmol/L)
Toluene	108-88-3	[Croatia] Hippuric acid	End of shift. [Specimen: Creatinine in urine]	2.50 g/g (1.58 mol/mol)
Toluene	108-88-3	[Croatia] o-Cresol	End of shift. [Specimen: Creatinine in urine]	1.0 mg/g (1.05 mmol/mol)

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Substance	Identifier	Determinant	Sampling time	Permissible limits
Toluene	108-88-3	[Czech Republic] Hippuric acid	End of shift. [Specimen: Creatinine in urine]	1600 mg/g (1000 µmol/mmol)
Toluene	108-88-3	[Czech Republic] o- Cresol (with hydrolysis)	End of shift. [Specimen: Creatinine in urine]	1.5 mg/g (1.6 µmol/mmol)
Toluene	108-88-3	[Finland] Toluene concentration	The morning after the workday. [Specimen: Blood]	500 nmol/L
Toluene	108-88-3	[France] Acide hippurique	End of shift. [Specimen: Creatinine in urine]	2500 mg/g
Toluene	108-88-3	[France] Acide hippurique	Last 4 hours of the shift. [Specimen: Creatinine in urine]	2500 mg/g
Toluene	108-88-3	[France] Toluene	End of shift. [Specimen: Venous blood]	1 mg/L
Toluene	108-88-3	[Germany (TRGS 903)] o- Kresol (nach Hydrolyse)	Sampling time period is for long-term exposures, at the end of the shift after several preceding ones. / Sampling time period is at end of exposure or at end of shift. [Specimen: Urine]	1.5 mg/L
Toluene	108-88-3	[Germany (TRGS 903)] Toluol	Sampling time period is immediately after exposure. [Specimen: Blood]	600 µg/L
Toluene	108-88-3	[Hungary] o-cresol	End of shift. [Specimen: Creatinine in urine]	1 mg/g (1.05 µmol/mmol)
Toluene	108-88-3	[Italy] Toluene	End of shift. [Specimen: Urine]	0.03 mg/L

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Substance	Identifier	Determinant	Sampling time	Permissible limits
Toluene	108-88-3	[Italy] Toluene	Prior to last shift of work week. [Specimen: Blood]	0.02 mg/L
Toluene	108-88-3	[Italy] o-Cresol, with hydrolysis	End of shift. [Specimen: Creatinine in urine]	0.3 mg/g
Toluene	108-88-3	[Portugal] Toluene	End of shift. [Specimen: Urine]	0.03 mg/L
Toluene	108-88-3	[Portugal] Toluene	Prior to last shift of work week. [Specimen: Blood]	0.02 mg/L
Toluene	108-88-3	[Portugal] o-Cresol, with hydrolysis	End of shift. [Specimen: Creatinine in urine]	0.3 mg/g
Toluene	108-88-3	[Romania] Hippuric acid o-cresol	End of shift. [Specimen: Urine]	2 g/l
Toluene	108-88-3	[Romania] Hippuric acid o-cresol	End of shift. [Specimen: Urine]	3 mg/L
Toluene	108-88-3	[Slovakia] Toluene	End of shift. [Specimen: Blood]	600 µg/L
Toluene	108-88-3	[Slovakia] Hippuric acid	End of shift. [Specimen: Urine]	2401 mg/L
Toluene	108-88-3	[Slovakia] o-Cresol	End of shift/ End of work week. [Specimen: Urine]	1.5 mg/L
Toluene	108-88-3	[Slovakia] Hippuric acid	End of shift. [Specimen: Creatinine in urine]	1600 mg/g
Toluene	108-88-3	[Slovakia] o-Cresol	End of shift/ End of work week. [Specimen: Creatinine in urine]	1.03 mg/g
Toluene	108-88-3	[Slovenia] Toluene	End of shift. [Specimen: Blood]	1.0 mg/L (10.85 µmol/L)
Toluene	108-88-3	[Slovenia] None	During the exposure. [Specimen: Last exhaled air]	20 ppm (0.83 µmol/L)

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Substance	Identifier	Determinant	Sampling time	Permissible limits
Toluene	108-88-3	[Slovenia] Hippuric acid	End of shift. [Specimen: Creatinine in urine]	2.50 g/g (1.58 mol/mol)
Toluene	108-88-3	[Slovenia] o-Cresol	End of shift. [Specimen: Creatinine in urine]	1.0 mg/g (1.05 mol/mol)
Toluene	108-88-3	[Spain] Tolueno	Prior to last shift of work week. [Specimen: Blood]	0.05 mg/L
Toluene	108-88-3	[Spain] Tolueno	End of shift. [Specimen: Urine]	0.08 mg/L
Toluene	108-88-3	[Spain] o-Cresol	End of shift. [Specimen: Urine]	0.6 mg/L

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.

Wear appropriate clothing to prevent any possibility of skin contact.

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.

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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 Putty
Odor	Strong Solvent
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	-95°C
Initial boiling point/range	232°F
Flash point (closed cup)	7°C (44.6°F)
Evaporation rate	2.24
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	7.1
Lower flammability/explosive limit	1.1
Vapor pressure	22 mmHg
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.03
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	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

9.2 Other information

VOC	348 g/L
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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.

10.3 Possibility of hazardous reactions:

None under normal conditions of use and storage.

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10.4 Conditions to avoid:

None known.

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
2,2' Dibenzamido diphenyl disulphide	dermal	LD50 Rat: > 2500 mg/kg
	oral	LD50 Rat: 4000 mg/kg
Sulfur	dermal	LD50 Rabbit: > 2,000 mg/kg
Toluene	oral	LD50 Rat: 5000 mg/kg
	dermal	LD50 Rabbit: 12,000 mg/kg
	inhalation	LC50 Rat: 25.7 mg/L (4 hr [vapor])
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	dermal	LD50 Rat: >2000 mg/kg
	oral	LD50 Rat: >5000 mg/kg
	inhalation	LC50 Rat: >165 mg/L (4 hr - dust/mist)
Zinc oxide	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg
	inhalation	LC50 Rat: > 5.7 mg/L (4 hr, aerosol)
Bounded Carbon Black	oral	LD50 Rat: >15,400 mg/kg
	dermal	LD50 Rabbit: >3000 mg/kg
Distillates (petroleum), hydrotreated light naphthenic	dermal	LD50 Rabbit: > 5000 mg/kg
	oral	LD50 Rat: > 5000 mg/kg
	inhalation	LC50 Rat: 2.18 mg/L (4 hr)
Distillates (petroleum), hydrotreated heavy paraffinic	dermal	LD50 Rabbit: >5000 mg/kg
	oral	LD50 Rat: >5000 mg/kg
	inhalation	LC50 Rat: >5 mg/L (4 hr) (mist)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rabbit: > 5000 mg/kg
	inhalation	LC50 Rat: 2.18 mg/L
Distillates (petroleum), hydrotreated heavy naphthenic	dermal	LD50 Rabbit: > 5000 mg/kg
	oral	LD50 Rat: > 5000 mg/kg
Stearic acid	dermal	LD50 Rabbit: 5000 mg/kg

Skin corrosion/irritation

Assessment:

Causes skin irritation

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Product data:

No data available.

Substance data:

Name	Result
Toluene	Causes skin irritation.
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Causes skin irritation.
Sulfur	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:

Name	Result
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Causes serious eye irritation.

Respiratory or skin sensitization**Assessment:**

May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Name	Result
2,2' Dibenzamido diphenyl disulphide	May cause an allergic skin reaction.

Carcinogenicity

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

Product data: No data available.

Substance data:

Name	Species	Result
Bounded Carbon Black	Not applicable.	The carcinogenic classification only applies to airborne, unbound particles of respirable size.
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.
Distillates (petroleum), hydrotreated light 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.
Distillates (petroleum), hydrotreated 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.

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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.

International Agency for Research on Cancer (IARC):

Name	Classification
Toluene	Group 3 - Not classifiable as to its carcinogenicity to humans
Bounded Carbon Black	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:

Suspected of damaging fertility or the unborn child

Product data:

No data available.

Substance data:

Name	Result
Toluene	Suspected of damaging fertility or the unborn child.
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure)

Assessment:

May cause drowsiness or dizziness

Product data:

No data available.

Substance data:

Name	Result
Toluene	May cause drowsiness or dizziness.
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment:

May cause damage to organs through prolonged or repeated exposure

Product data:

No data available.

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Substance data:

Name	Result
Toluene	May cause damage to organs (central nervous system; kidneys; liver) through prolonged or repeated exposure. Exposure to the substance may increase noise-induced hearing loss.

Aspiration toxicity

Assessment:

May be fatal if swallowed and enters airways

Product data:

No data available.

Substance data:

Name	Result
Toluene	May be fatal if swallowed and enters airways.

Information on likely routes of exposure:

Oral, dermal, inhalation, and ocular.

Symptoms related to the physical, chemical and toxicological characteristics:

See section 4 of this SDS.

Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

Assessment:

Harmful to aquatic life

Product data: No data available.

Substance data:

Name	Result
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	NOEC - <i>Selenastrum capricornutum</i> (green algae) - > 0.2 mg/l - 72 h
	LC50 <i>Oncorhynchus mykiss</i> : >0.2 mg/L (96 hr)
	EC50 <i>Daphnia magna</i> : >0.2 mg/L (48 hr)
	EC50 <i>Pseudokirchnerella subcapitata</i> : >0.2 mg/L (72 hr)
Zinc oxide	<i>Oncorhynchus mykiss</i> (rainbow trout) - 1.1 mg/l - 96.0 h
	EC50 <i>Daphnia magna</i> : 0.86 mg/L (48 hr)
	LC50 <i>Thymallus arcticus</i> : 0.112 mg/L (96 hr)

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	NOEC <i>Pimephales promelas</i> : >1.0 mg/L (34 d)

12.2 Persistence and degradability

Product data: No data available.

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12.3 Substance data:

Name	Result
2,2' Dibenzamido diphenyl disulphide	24% degradation after 28 days; inherently biodegradable.
Toluene	Readily biodegradable in water.
Bounded Carbon Black	The substance will not be biodegraded.
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Not inherently biodegradable.

12.4 Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Bounded Carbon Black	Bioaccumulation is not expected to occur.

12.5 Mobility in soil

Product data: No data available.

Substance data: No data available.

12.6 Results of PBT and vPvB assessment

PBT assessment:

Zinc oxide	PBT assessment does not apply to inorganic substances.
Bounded Carbon Black	This substance is not PBT.

vPvB assessment:

Zinc oxide	vPvB assessment does not apply to inorganic substances.
Bounded Carbon Black	This substance is not vPvB.

12.7 Other adverse effects: No data available.

SECTION 13: Disposal considerations


13.1 Waste treatment methods

Relevant information:

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

SECTION 14: Transport information

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

UN number	1993
UN proper shipping name	Flammable Liquid, n.o.s. (Toluene)
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None
Classification code	F1

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Tank code	LGBF
Transport category	2
Tunnel restriction code	(D/E)
Hazard identification	33
Excepted quantities	E2
Limited quantity	1L


International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number	1993
UN proper shipping name	Flammable Liquid, n.o.s. (Toluene)
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None
Excepted quantities	E2
Limited quantity	1L

International Maritime Dangerous Goods (IMDG)

UN number	1993
UN proper shipping name	Flammable Liquid, n.o.s. (Toluene)
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None
EMS number	F-E, S-E
Stowage category	B
Excepted quantities	E2
Limited quantity	1L

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

UN number	1993
UN proper shipping name	Flammable Liquid, n.o.s. (Toluene)
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None
ERG code	3H
Excepted quantities	E2
Passenger and cargo	5 L
Cargo aircraft only	60 L
Limited quantity	1L

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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): All ingredients are listed.

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

REACH SVHC Authorizations: None of the ingredients are listed.

REACH Restriction:

108-88-3	Toluene	Listed
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Water hazard class (WGK) (Product): Not determined.

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
2,2' Dibenzamido diphenyl disulphide	135-57-9	1
Zinc oxide	1314-13-2	2
Toluene	108-88-3	2
Bounded Carbon Black	1333-86-4	Non-hazardous to water.
White Mineral Oil	8042-47-5	1
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	68610-51-5	1
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	1
Sulfur	7704-34-9	1
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	1
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	1
Stearic acid	57-11-4	Non-hazardous to water.

Other regulations

Germany TA Luft: None of the ingredients are listed.

Germany MAK: White Mineral Oil: 8-hour TWA: 5 mg/m³ (respirable fraction), Zinc oxide: 8-hour TWA:

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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)], Toluene: 8-hour TWA: 50 ppm, Distillates (petroleum), hydrotreated light naphthenic: 8-hour TWA: 5 mg/m³ (Mineral oils, highly refined), Distillates (petroleum), hydrotreated heavy paraffinic: 8-hour TWA: 5 mg/m³

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:

October 16th, 2020: Reviewed/updated to comply with the 12th and 14th Adaptations to Technical Progress (ATP) of the CLP Regulation. No significant changes

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
Aspiration hazard, category 1	Expert judgement
Specific target organ toxicity - single exposure, category 3, central nervous system	Calculation method
Specific target organ toxicity - repeated exposure, category 2	Calculation method
Reproductive toxicity, category 2	Calculation method
Chronic aquatic hazard, category 3	Calculation method

Summary of classification(s) in section 3:

Asp. Tox. 1; H304	Aspiration hazard, category 1
Skin Irrit. 2 ; H315	Skin irritation, category 2
Stot SE 3; H336	Specific target organ toxicity - single exposure, category 3, central nervous system
Stot RE 2; H373	Specific target organ toxicity - repeated exposure, category 2
Repr. 2; H361	Reproductive toxicity, category 2
Flam. Liq. 2; H225	Flammable liquids, category 2
Aquatic Acute 1; H400	Acute aquatic hazard, category 1
Aquatic Chronic 1; H410	Chronic aquatic hazard, category 1
Aquatic Chronic 4; H413	Chronic aquatic hazard, category 4
Stot SE 3; H335	Specific target organ toxicity - single exposure, category 3, respiratory irritation
Eye Irrit. 2; H319	Eye irritation, category 2A
Skin Sens. 1; H317	Skin sensitization, category 1

Summary of hazard statements in section 3:

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H361	Suspected of damaging fertility or the unborn child
H225	Highly flammable liquid and vapour
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
H335	May cause respiratory irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction

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Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, 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.

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End of Safety Data Sheet