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: 10.06.2020

A Compound

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

1.1 Product identifier

Product Name: A Compound

Product code: 858A, 859A

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:	**Supplier:**
North America	**European Union**
Tech International	Tech International Europe
200 East Coshocton Street	Koeybleuken 16
Johnstown, OH 43031	2300 Turnhout, Belgium
1-740-967-9015	00 32 1442 3103
www.tech-international.com	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
Eye irritation, category 2
Skin irritation, category 2
Skin sensitization, category 1
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 2

Hazard-determining components of labeling:

Zinc oxide
Zinc bis(dibutyldithiocarbamate)
Cyclohexyl(ethyl)amine
Toluene

2.2 Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
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.
H411 Toxic 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 a rash occurs: Get medical advice/attention.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists get medical advice/attention
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.
P391 Collect spillage.
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 and container as instructed in Section 13.

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
CAS number: 471-34-1 EC number: 207-439-9	Calcium Carbonate	Not classified	10-30
CAS number: 1314-13-2 EC number: 215-222-5 REACH number: 01-2119463881-32-0039	Zinc oxide	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<5
CAS number: 136-23-2 EC number: 205-232-8	Zinc bis(dibutyldithiocarbamate)	Skin Sens. 1; H317 Skin Irrit. 2 ; H315 Stot SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Irrit. 2; H319	<5
CAS number: 5459-93-8 EC number: 226-733-8	Cyclohexyl(ethyl)amine	Acute Tox. 4; H302 Acute Tox. 3; H311 Acute Tox. 4; H332 Skin Corr. 1A; H314 Flam. Liq. 3; H226	<3
CAS number: 64742-52-5 EC number: 265-155-0 REACH: 01-2119467170-45-0055	Distillates (petroleum), hydrotreated heavy naphthenic	Not classified	<3
CAS number: 68610-06-0 EC number: 271-847-3	Phenol, isobutylenated	Skin Sens. 1; H317 Skin Corr. 1B; H314	<1
CAS number: 57-11-4 EC number: 200-313-4	Stearic acid	Not classified	<1

Additional information:

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:

Show this Safety Data Sheet to the doctor in attendance

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 gently flowing lukewarm water for 15 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:

This product presents an aspiration hazard. If aspiration is suspected, seek emergency medical treatment. 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:

Product is highly flammable. Exposure to sources of ignition may cause physical injury

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

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing

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

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

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

Delayed symptoms and effects:

May cause damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time).

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.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Skin/eye burns require immediate treatment.

Overexposure via inhalation requires urgent medical treatment.

Aspiration of this product following ingestion requires emergency medical treatment.

Notes for the doctor:

Treat symptomatically.

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 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:

For personal protective equipment see Section 8. For disposal see Section 13.

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 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
Slovakia	Zinc bis(dibutyldithiocarbamate)	136-23-2	8-hour TWA (NPEL): 0.1 mg/m³ (respirable fraction)
	Zinc bis(dibutyldithiocarbamate)	136-23-2	8-hour TWA (NPEL): 2 mg/m³ (inhalable fraction)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA (NPEL): 5 ppm (1 mg/m³) [Liquid mineral oil mist, fumes]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL (NPEL): 15 ppm (3 mg/m³) [Liquid mineral oil mist, fumes]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 1 mg/m³ [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	15-minute STEL (NPEL): 1 mg/m³ [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 0.1 mg/m³ [Zinc and its inorganic compounds (Respirable fraction)]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 2 mg/m³ [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 heavy naphthenic	64742-52-5	8-hour TWA (NPEL): 5 ppm (1 mg/m³) [Liquid mineral oil mist, fumes]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL (NPEL): 15 ppm (3 mg/m³) [Liquid mineral oil mist, fumes]

A Compound

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Calcium Carbonate	471-34-1	8-hour TWA (NPEL): 10 mg/m³ (limestone and marble)
	Toluene	108-88-3	8-hour TWA (NPEL): 50 ppm (192 mg/m³)
	Toluene	108-88-3	15-minute STEL (NPEL): 100 ppm (384 mg/m³)
Lithuania	Stearic acid	57-11-4	8-hour TWA: 5 mg/m³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 1 mg/m³ (Oil mist, including smoke)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 3 mg/m³ (Oil mist, including smoke)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m³
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 1 mg/m³ (Oil mist, including smoke)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 3 mg/m³ (Oil mist, including smoke)
	Toluene	108-88-3	8-hour TWA: 192 mg/m³ (50 ppm)
	Toluene	108-88-3	15-minute STEL: 384 mg/m³ (100 ppm)
Belgium	Stearic acid	57-11-4	8-hour TWA: 10 mg/m³ (as stearates)
	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/m³
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m³ (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m³ (Fumes)
	Zinc oxide	1314-13-2	8-hour TWA: 10 mg/m³ (Dusts)
	Toluene	108-88-3	8-hour TWA: 20 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	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/m³
	Calcium Carbonate	471-34-1	8-hour TWA: 10 mg/m³
	Toluene	108-88-3	8-hour TWA: 20 ppm (77 mg/m³)
	Toluene	108-88-3	15-minute STEL: 100 ppm (384 mg/m³)
Bulgaria	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 5.0 mg/m³
	Zinc oxide	1314-13-2	15-minute STEL: 10.0 mg/m³
	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/m³

A Compound

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 5.0 mg/m³
	Calcium Carbonate	471-34-1	TWA: 1.0 fibers/cm³ (Limestone, containing less than 2% free crystalline silicon dioxide, fibrous particles, respirable fraction)
	Calcium Carbonate	471-34-1	TWA: 10.0 mg/m³
	Calcium Carbonate	471-34-1	TWA: 10.0 mg/m³ (Limestone, containing less than 2% free crystalline silicon dioxide, inhalable fraction)
	Toluene	108-88-3	TWA: 192.0 mg/m³ (50 ppm)
	Toluene	108-88-3	15-minute STEL: 384.0 mg/m³ (100 ppm)
Romania	Cyclohexyl(ethyl)amine	5459-93-8	8-hour TWA: 15 mg/m³ (2.9 ppm)
	Cyclohexyl(ethyl)amine	5459-93-8	15-minute STEL: 30 mg/m³ (5.8 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/m³ (Mineral oils)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m³ (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m³ (Fumes)
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 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/m³ (Mineral oils)
	Calcium Carbonate	471-34-1	8-hour TWA: 10 mg/m³ [Marble, chalk (calcium carbonate) (inhalable fraction)]
	Cyclohexyl(ethyl)amine	5459-93-8	8-hour TWA: 15 mg/m³, 2.9 ppm
	Cyclohexyl(ethyl)amine	5459-93-8	15-minute STEL: 30 mg/m³, 5.8 ppm
	Toluene	108-88-3	8-hour TWA: 192 mg/m³ (50 ppm)
	Toluene	108-88-3	15-minute STEL: 384 mg/m³ (100 ppm)
Ireland	Stearic acid	57-11-4	8-hour TWA: 10 mg/m³ (as stearates, except lead stearate)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour OEL (TWA): 5 mg/m³ (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

A Compound

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour OEL (TWA): 5 mg/m³ (Mineral oil, pure, highly and severely refined; Inhalable fraction)
	Calcium Carbonate	471-34-1	8-hour TWA: 10 mg/m³ (Total Inhalable Dust)
	Calcium Carbonate	471-34-1	8-hour TWA: 4 mg/m³ (Respirable Dust)
	Toluene	108-88-3	8-hour OEL (TWA): 50 ppm (192 mg/m³)
	Toluene	108-88-3	15-minute OEL (STEL): 100 ppm (384 mg/m³)
Czech Republic	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/m³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling limit (NPK-P): 1000 mg/m³ (Solvent naphtha)
	Zinc oxide	1314-13-2	8-hour TWA: 2 mg/m³ (as Zn)
	Zinc oxide	1314-13-2	Ceiling limit (NPK-P): 5 mg/m³ (Fumes)
	Toluene	108-88-3	8-hour TWA: 200 mg/m³
	Toluene	108-88-3	Ceiling limit: 500 mg/m³
	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/m³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling limit (NPK-P): 1000 mg/m³ (Solvent naphtha)
	Calcium Carbonate	471-34-1	8-hour TWA: 10 mg/m³ (Limestone, marble, dust)
	Toluene	108-88-3	Ceiling limit (NPK-P): 500 mg/m³
Italy	Stearic acid	57-11-4	8-hour TWA: 3 mg/m³ [Stearates (except stearates of toxic metals), Respirable fraction]
	Stearic acid	57-11-4	8-hour TWA: 10 mg/m³ [Stearates (except stearates of toxic metals), Inhalable fraction]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	Zinc oxide	1314-13-2	8-hour TWA: 2 mg/m³ (Respirable fraction)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m³ (Respirable fraction)
	Toluene	108-88-3	8-hour TWA: 50 ppm

A Compound

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	Toluene	108-88-3	8-hour TWA: 50 ppm (192 mg/m³)
Portugal	Stearic acid	57-11-4	8-hour Exposure Limit: 10 mg/m³ (as stearates)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour exposure limit: 5 mg/m³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Short-term exposure limit: 10 mg/m³
	Zinc oxide	1314-13-2	8-hour exposure limit: 2 mg/m³
	Zinc oxide	1314-13-2	Short-term exposure limit: 10 mg/m³
	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 heavy naphthenic	64742-52-5	8-hour exposure limit: 5 mg/m³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Short-term exposure limit: 10 mg/m³
	Calcium Carbonate	471-34-1	8-hour Exposure Limit: 10 mg/m³
	Toluene	108-88-3	8-hour TWA: 50 ppm (192 mg/m³)
	Toluene	108-88-3	15-minute STEL: 100 ppm (384 mg/m³)
Hungary	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/m³ (Respirable)
	Zinc oxide	1314-13-2	60-minute STEL (CK Value): 20 mg/m³ (Respirable)
	Toluene	108-88-3	8-hour TWA: 190 mg/m³
	Toluene	108-88-3	60-minute STEL: 380 mg/m³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling Limit (MK Value): 5 mg/m³ [Oil smog (mineral oil)]
	Calcium Carbonate	471-34-1	8-hour TWA (ÁK Value): 10 mg/m³
	Toluene	108-88-3	8-hour TWA (ÁK Value): 190 mg/m³
	Toluene	108-88-3	60-minute STEL (CK Value): 380 mg/m³
Spain	Stearic acid	57-11-4	8-hour daily exposure limit (VLA_ED): 10 mg/m³ [Stearates (except stearates of toxic metals)]

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour daily exposure limit (VLA_ED): 5 mg/m³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL (VLA-EC): 10 mg/m³
	Zinc oxide	1314-13-2	8-hour daily exposure limit (VLA_ED): 2 mg/m³
	Zinc oxide	1314-13-2	15-minute STEL (VLA-EC): 10 mg/m³
	Toluene	108-88-3	8-hour daily exposure limit: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour daily exposure limit (VLA_ED): 5 mg/m³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL (VLA-EC): 10 mg/m³
	Toluene	108-88-3	8-hour dailyexposure limit(VLA-ED): 50 ppm (192 mg/m³)
	Toluene	108-88-3	15-minute STEL (VLA-EC): 100 ppm (384 mg/m³)
Sweden	Stearic acid	57-11-4	Level Limit Value (NGV): 5 mg/m³ (as stearates, total dust)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Level Limit Value (NGV): 1 mg/m³ (Oil mist including oil fume)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Short Term Limit (KTV): 3 mg/m³ (Oil mist including oil fume)
	Zinc oxide	1314-13-2	Level Limit Value (NGV): 5 mg/m³ (Total dust)
	Toluene	108-88-3	Level limit value: 50 ppm
	Toluene	108-88-3	Ceiling limit: 100 ppm
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Level Limit Value (NGV): 1 mg/m³ (Oil mist including oil fume)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Short Term Limit (KTV): 3 mg/m³ (Oil mist including oil fume)
	Toluene	108-88-3	Level Limit Value (NGV): 50 ppm (192 mg/m³)
	Toluene	108-88-3	Ceiling Limit Value (TGV): 100 ppm (384 mg/m³)
Poland	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA (NDS): 5 mg/m³ (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/m³ (Inhalable fraction, as Zn)
	Toluene	108-88-3	8-hour TWA: 100 mg/m³
	Toluene	108-88-3	15-minute STEL: 200 mg/m³

A Compound

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA (NDS): 5 mg/m³ (Highly refined mineral oils with the exception of cutting fluids, Inhalable fraction)
	Calcium Carbonate	471-34-1	8-hour TWA (NDS): 10 mg/m³
	Toluene	108-88-3	8-hour TWA (NDS): 100 mg/m³
	Toluene	108-88-3	15-minute STEL (NDSCh): 200 mg/m³
	Calcium Carbonate	471-34-1	8-hour TWA: 10 mg/m³ [Marble, chalk (calcium carbonate) (inhalable fraction)]
European Union	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-Hour TWA: 5 mg/m³
	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 heavy naphthenic	64742-52-5	8-Hour TWA: 5 mg/m³
	Toluene	108-88-3	Threshold limit: 192 mg/m³ (50 ppm)
	Toluene	108-88-3	STEL: 384 mg/m³ (100 ppm)
Croatia	Zinc oxide	1314-13-2	Maximum (8 hr) allowable concentration: 5 mg/m³
	Zinc oxide	1314-13-2	Short-term (15 min) allowable concentration: 10 mg/m³
	Toluene	108-88-3	8-hour allowable concentration: 50 ppm
	Toluene	108-88-3	15-minute allowable concentration: 100 ppm
	Calcium Carbonate	471-34-1	Maximum (8 hr) allowable concentration: 10 mg/m³ [Limestone (Total Dust)]
	Calcium Carbonate	471-34-1	Maximum (8 hr) allowable concentration: 4 mg/m³ [Limestone (Respirable Dust)]
	Toluene	108-88-3	Maximum (8 hr) allowable concentration: 50 ppm (192 mg/m³)
	Toluene	108-88-3	Short-term (15 min) allowable concentration: 100 ppm (384 mg/m³)
Cyprus	Zinc oxide	1314-13-2	8-hour TWA: 5.0 mg/m³ (Fumes)
	Calcium Carbonate	471-34-1	8-hour TWA: 10 mg/m³
Denmark	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 1 mg/m³
	Zinc oxide	1314-13-2	TWA: 4 mg/m³
	Toluene	108-88-3	TWA: 25 ppm

A Compound

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 1 mg/m³
	Toluene	108-88-3	TWA: 25 ppm (94 mg/m³)
Finland	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour limit: 5 mg/m³
	Zinc oxide	1314-13-2	8-hour limit: 2 mg/m³
	Zinc oxide	1314-13-2	15-minute limit: 10 mg/m³
	Toluene	108-88-3	8-hour limit: 25 ppm
	Toluene	108-88-3	15-minute limit: 100 ppm
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour limit: 5 mg/m³
	Calcium Carbonate	471-34-1	8-hour limit: 10 mg/m³
	Toluene	108-88-3	8-hour limit: 25 ppm (81 mg/m³)
	Toluene	108-88-3	15-minute limit: 100 ppm (380 mg/m³)
Estonia	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m³
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	STEL: 100 ppm
	Calcium Carbonate	471-34-1	8-hour TWA: 10 mg/m³
	Calcium Carbonate	471-34-1	8-hour TWA: 5 mg/m³ (Fine dust)
	Toluene	108-88-3	8-hour TWA: 50 ppm (192 mg/m³)
	Toluene	108-88-3	STEL: 100 ppm (384 mg/m³)
Greece	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m³ [Paraffin oil (Mist)]
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m³ (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m³ (Fumes)
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	15-minute STEL: 100 ppm
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m³ [Paraffin oil (Mist)]
	Calcium Carbonate	471-34-1	8-hour TWA: 10 mg/m³ [Marble (Inhalable)]
	Calcium Carbonate	471-34-1	8-hour TWA: 5 mg/m³ [Marble (Respirable)]
	Calcium Carbonate	471-34-1	8-hour TWA: 10 mg/m³ (Inhalable)
	Calcium Carbonate	471-34-1	8-hour TWA: 5 mg/m³ (Respirable)
	Toluene	108-88-3	8-hour TWA: 50 ppm (192 mg/m³)
	Toluene	108-88-3	15-minute limit: 100 ppm (384 mg/m³)
Latvia	Zinc oxide	1314-13-2	8-hour TWA: 0.5 mg/m³
	Toluene	108-88-3	8-hour TWA: 14 ppm
	Toluene	108-88-3	15-minute STEL: 40 ppm

A Compound

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Calcium Carbonate	471-34-1	8-hour TWA: 6 mg/m³
	Toluene	108-88-3	8-hour TWA: 50 mg/m³ (14 ppm)
	Toluene	108-88-3	15-minute STEL: 150 mg/m³ (40 ppm)
Netherlands	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Binding 8-hour TWA: 5 mg/m³ [Oil mist (Mineral oil)]
	Toluene	108-88-3	Binding 8-hour TWA: 150 mg/m³
	Toluene	108-88-3	Binding 15-minute STEL: 384 mg/m³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Binding 8-hour TWA: 5 mg/m³ [Oil mist (Mineral oil)]
	Toluene	108-88-3	Binding STEL: 384 mg/m³ (STEL time period is 15 minutes)
Malta	Toluene	108-88-3	TWA: 50 ppm
	Toluene	108-88-3	STEL: 100 ppm
	Toluene	108-88-3	TWA: 50 ppm (192 mg/m³)
	Toluene	108-88-3	STEL: 100 ppm (384 mg/m³)
Slovenia	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m³ [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	STEL: 20 mg/m³ [Fumes (Respirable fraction)]
	Toluene	108-88-3	8-hour TWA: 50 ppm
	Toluene	108-88-3	8-hour TWA: 192 mg/m³ (50 ppm)
	Toluene	108-88-3	STEL: 384 mg/m³ (100 ppm)
France	Zinc oxide	1314-13-2	Time weighted average (VME): 5 mg/m³ (Fumes)
	Zinc oxide	1314-13-2	Time weighted average (VME): 10 mg/m³ (Dusts)
	Toluene	108-88-3	TWA: 20 ppm
	Toluene	108-88-3	STEL: 100 ppm
	Calcium Carbonate	471-34-1	Time weighted average (VME): 10 mg/m³
	Toluene	108-88-3	Time weighted average (VME): 20 ppm (76.8 mg/m³)
	Toluene	108-88-3	Short term exposure limit: 100 ppm (384 mg/m³)
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/m³
Germany	Toluene	108-88-3	Limit value: 50 ppm
	Toluene	108-88-3	DFG Limit value: 50 mL/m³ (190 mg/m³)
	Toluene	108-88-3	DFG Short term (15 min) limit value: 200 mL/m³ (760 mg/m³)
	Toluene	108-88-3	AGS Limit value: 200 mg/m³

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Toluene	108-88-3	AGS Short term (15 min) limit value: 400 mg/m³
Luxembourg	Toluene	108-88-3	TWA: 50 ppm
	Toluene	108-88-3	STEL: 100 ppm
	Toluene	108-88-3	TWA: 50 ppm (192 mg/m³)
	Toluene	108-88-3	STEL: 100 ppm (384 mg/m³)
United Kingdom	Toluene	108-88-3	TWA: 50 ppm
	Toluene	108-88-3	STEL: 100 ppm
	Calcium Carbonate	471-34-1	TWA: 10 mg/m³ (Inhalable Dust)
	Calcium Carbonate	471-34-1	TWA: 4 mg/m³ (Respirable Dust)
	Calcium Carbonate	471-34-1	TWA: 10 mg/m³ (Limestone and Marble, Total Inhalable)
	Calcium Carbonate	471-34-1	TWA: 4 mg/m³ (Limestone and Marble, Respirable)
	Toluene	108-88-3	TWA: 50 ppm (191 mg/m³)
	Toluene	108-88-3	STEL: 100 ppm (384 mg/m³)

Biological limit values:

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

Derived No Effect Level (DNEL):

Not determined or not applicable.

Predicted No Effect Concentration (PNEC):

Not determined or not applicable.

Information on monitoring procedures:

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

8.2 Exposure controls

Appropriate engineering controls:

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

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

Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

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

General hygienic measures:

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	Tan 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	1.04
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	356 g/L

SECTION 10: Stability and reactivity

10.1 Reactivity:

Not reactive under recommended handling and storage conditions.

10.2 Chemical stability:

Stable under recommended handling and storage conditions.

10.3 Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

10.4 Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

10.5 Incompatible materials:

None known.

10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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
Zinc oxide	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg
	inhalation	LC50 Rat: > 5.7 mg/L (4 hr, aerosol)
Cyclohexyl(ethyl)amine	oral	LD50: Rat - 590 mg/kg
Toluene	oral	LD50 Rat: 5000 mg/kg
	dermal	LD50 Rabbit: 12,000 mg/kg
	inhalation	LC50 Rat: 25.7 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

Product data:

No data available.

Substance data:

Name	Result
Phenol, isobutylenated	Causes severe skin burns and eye damage.
Toluene	Causes skin irritation.
Zinc bis(dibutyldithiocarbamate)	Causes skin irritation.
Cyclohexyl(ethyl)amine	Causes severe skin burns and eye damage.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation

Product data:

No data available.

Substance data:

Name	Result
Zinc bis(dibutyldithiocarbamate)	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Name	Result
Phenol, isobutylenated	May cause an allergic skin reaction.
Zinc bis(dibutyldithiocarbamate)	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
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.

International Agency for Research on Cancer (IARC):

Name	Classification
Toluene	Group 3 - Not classifiable as to its carcinogenicity 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.

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.
Zinc bis(dibutyldithiocarbamate)	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.

Substance data:

Name	Result
Toluene	May cause damage to organs through prolonged or repeated exposure.

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, ocular and inhalation.

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:

Toxic to aquatic life

Product data: No data available.

Substance data:

Name	Result
Zinc oxide	EC50 Daphnia magna: 0.86 mg/L (48 hr)
	LC50 Thymallus arcticus: 0.112 mg/L (96 hr)
Zinc bis(dibutyldithiocarbamate)	EC50 - Daphnia magna - 0.74 mg/L - 48 hr
	NOEC - Daphnia magna - 0.0032 mg/L - 21 d

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: No data available.

12.3 Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

12.4 Mobility in soil

Product data: No data available.

Substance data: No data available.

12.5 Results of PBT and vPvB assessment

PBT assessment:

Zinc oxide	PBT assessment does not apply to inorganic substances.

vPvB assessment:

Zinc oxide	vPvB assessment does not apply to inorganic substances.

12.6 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, Cyclohexyl(ethyl)amine)
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	Marine Pollutant (Zinc oxide, Zinc bis(dibutyldithiocarbamate))
Special precautions for user	None
Classification code	F1
Tank code	LGBF
Transport category	2
Tunnel restriction code	D/E
Hazard identification	33
Excepted quantities	E2
Limited quantity	1 L

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International Carriage of Dangerous Goods by Inland Waterways (ADN)

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

International Maritime Dangerous Goods (IMDG)

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

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

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

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

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

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Zinc oxide	1314-13-2	2
Zinc bis(dibutyldithiocarbamate)	136-23-2	2
Cyclohexyl(ethyl)amine	5459-93-8	Not applicable.
Toluene	108-88-3	2
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	1
Stearic acid	57-11-4	Non-hazardous to water.
Phenol, isobutylenated	68610-06-0	Not applicable.
Calcium Carbonate	471-34-1	Non-hazardous to water.

Other regulations

Germany TA Luft: None of the ingredients are listed.

Germany MAK: Zinc bis(dibutyldithiocarbamate): 8-hour TWA: 0.1 mg/m³ (respirable fraction), Zinc oxide: 8-hour TWA: 0.1 mg/m³ [Zinc and its inorganic compounds (respirable fraction)], Zinc bis(dibutyldithiocarbamate): 8-hour TWA: 2 mg/m³ (inhalable fraction), Zinc oxide: 8-hour TWA: 2 mg/m³ [Zinc and its inorganic compounds (inhalable fraction)], Toluene: 8-hour TWA: 50 ppm (190 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 6, 2020: Reviewed/updated to comply with the 12th and 14th Adaptations to Technical Progress (ATP) of the CLP Regulation. No significantchanges

Abbreviations and Acronyms: None

A Compound

Classification procedure:

Classification according to Regulation (EC) No. 1272/2008 (CLP)	Method Used
Flammable liquids, category 2	Calculation method
Eye irritation, category 2	Calculation method
Skin irritation, category 2	Calculation method
Skin sensitization, category 1	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 2	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
Skin Sens. 1; H317	Skin sensitization, category 1
Stot SE 3; H335	Specific target organ toxicity - single exposure, category 3, respiratory irritation
Eye Irrit. 2; H319	Eye irritation, category 2
Acute Tox. 4; H302	Acute toxicity (oral), category 4
Acute Tox. 3; H311	Acute toxicity (dermal), category 3
Acute Tox. 4; H332	Acute toxicity (inhalation), category 4
Skin Corr. 1A; H314	Skin corrosion, category 1A
Flam. Liq. 3; H226	Flammable liquids, category 3
Skin Corr. 1B; H314	Skin corrosion, category 1B

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
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
H319	Causes serious eye irritation
H302	Harmful if swallowed
H311	Toxic in contact with skin
H332	Harmful if inhaled
H314	Causes severe skin burns and eye damage
H226	Flammable liquid and vapour

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.

Initial preparation date: 06.28.2016
Revision date: 10.06.2020

End of Safety Data Sheet