

**SAFETY DATA SHEET**

Revision Date: 08.09.2017

Print Date: 26.01.2018

SDS Number: 000000121027

Version: 5.0

Maxguard™ DNP 10028 SMF101030020103
 GELCOAT
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 in various countries
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Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_PL

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : Maxguard™ DNP 10028 SMF101030020103
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 various countries

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

Recommended use : **Reserved for industrial and professional use.**

Restrictions on use

Consumer use

1.3 Details of the supplier of the safety data sheet

Ashland
 P.O. Box 8619
 NL3009 AP, Rotterdam
 Netherlands
 +31 10 497 5000 (in the Netherlands), or
 contact your local CSR contact person

EUSMT@ashland.com

1.4 Emergency telephone number

+1-800-274-5263/001-859-357-3564, or contact
 your local emergency telephone number at 112 or
 999 (medical services)

Product Information

+31 10 497 5000 (in the Netherlands), or contact
 your local CSR contact person

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.



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Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 1, Auditory organs	H372: Causes damage to organs through prolonged or repeated exposure if inhaled.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (Auditory organs) through prolonged or repeated exposure if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:	
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

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P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/
 eye protection/ face protection.

Response:
 P370 + P378 In case of fire: Use dry sand, dry chemical
 or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

Styrene
 Cobalt bis(2-ethylhexanoate)

2.3 Other hazards**Additional advice**

No information available.

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Styrene	100-42-5 202-851-5 01-2119457861-32-0185 01-2119457861-32-0151 01-2119457861-32-xxxx	Flam. Liq.3; H226 Acute Tox.4; H332 Skin Irrit.2; H315 Eye Irrit.2; H319 Repr.2; H361d STOT SE3; H335 STOT RE1; H372 Asp. Tox.1; H304 Aquatic Chronic3; H412	>= 25,00 - < 40,00
Stoddard solvent	8052-41-3 232-489-3	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 0,25 - < 0,50
Cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6	Eye Irrit.2; H319 Skin Sens.1A; H317 Repr.2; H361 Aquatic Acute1;	>= 0,10 - < 0,25

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		H400 Aquatic Chronic3; H412	
Potassium 2-ethylhexanoate	3164-85-0 221-625-7	Skin Irrit.2; H315 Repr.2; H361d	>= 0,10 - < 0,30
Solvent naphtha (petroleum), light arom.	64742-95-6 265-199-0	Flam. Liq.3; H226 STOT SE3; H336 STOT SE3; H335 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 0,10 - < 0,25
2-Methylhydroquinone	95-71-6 202-443-7	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Irrit.2; H319 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,00 - < 0,10
Substances with a workplace exposure limit :			
Titanium dioxide	13463-67-7 236-675-5 01-2119489379-17-xxxx		>= 15,00 - < 25,00
Aluminium hydroxide	21645-51-2 244-492-7		>= 5,00 - < 10,00
Talc	14807-96-6 238-877-9		>= 2,50 - < 5,00

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
 Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.

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If inhaled	: Move to fresh air. IF INHALED: Call a POISON CENTER/ doctor if you feel unwell. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use. If on clothes, remove clothes.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.
If swallowed	: Obtain medical attention. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways) confusion
Risks	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: No hazards which require special first aid measures.
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SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Alcohol-resistant foam
 Carbon dioxide (CO₂)
 Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
 Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
 Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hydrocarbons
 carbon dioxide and carbon monoxide
 aluminum oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Do not use a solid water stream as it may scatter and spread fire.
 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
 Use a water spray to cool fully closed containers.

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

Personal precautions : Evacuate personnel to safe areas.
 Remove all sources of ignition.
 Use personal protective equipment.
 Ensure adequate ventilation.
 Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
 Comply with all applicable federal, state, and local regulations.
 Suppress (knock down) gases/vapours/mists with a water spray jet.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
 Prevent further leakage or spillage if safe to do so.
 If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Open drum carefully as content may be under pressure.
 Avoid formation of aerosol.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Do not breathe vapours/dust.

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	<p>Do not smoke. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Container hazardous when empty. Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.</p>
Advice on protection against fire and explosion	: Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). No sparking tools should be used. Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment.
Hygiene measures	: Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking. Electrical installations / working materials must comply with the technological safety standards.
Other data	: No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Styrene	100-42-5	NDS	50 mg/m ³	PL OEL
		NDSch	100 mg/m ³	PL OEL
Titanium dioxide	13463-67-7	NDS (inhalable dust)	10 mg/m ³ inhalable dust	PL OEL
Aluminium hydroxide	21645-51-2	NDS ((inhalable fraction))	2,5 mg/m ³ (inhalable fraction) (Aluminium)	PL OEL
		NDS (respirable fraction)	1,2 mg/m ³ respirable fraction (Aluminium)	PL OEL
Talc	14807-96-6	NDS (respirable dust fraction)	1 mg/m ³ respirable dust fraction	PL OEL
		NDS (inhalable dust)	4 mg/m ³ inhalable dust	PL OEL
		NDS (Respirable fibres)	0,5 fibres per cubic centimeter Respirable fibres	PL OEL
Stoddard solvent	8052-41-3	NDS (inhalable dust)	1 mg/m ³ inhalable dust	PL OEL
		NDS	300 mg/m ³	PL OEL
		NDSch	900 mg/m ³	PL OEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Styrene : End Use: **Workers**
 Exposure routes: **Inhalation**
 Potential health effects: **Short-term exposure, Systemic effects**
 Value: **289 mg/m³**
 End Use: **Workers**
 Exposure routes: **Inhalation**

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Potential health effects: Short-term exposure, Local effects

Value: 306 mg/m³

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 85 mg/m³

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Value: 406 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

Value: 174,25 mg/m³

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Local effects

Value: 182,75 mg/m³

End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Value: 343 mg/kg

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term exposure, Systemic effects

Value: 2,1 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 10,2 mg/m³

8.2 Exposure controls**Engineering measures**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

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with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:
 Impervious clothing
 Safety shoes
 Flame-resistant clothing
 Choose body protection according to the amount and
 concentration of the dangerous substance at the work place.
 Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection : In the case of vapour formation use a respirator with an
 approved filter.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance : liquid

Odour : pungent

Odour Threshold : No data available

pH :
 Not applicable

Melting point/freezing point : not determined

Boiling point/boiling range : > 145 °C

Flash point : 32 °C

Method: ISO 2719

Other information: Static Accumulating liquid

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

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Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : ca. 1,078 g/cm³

Solubility(ies)

Water solubility : immiscible

Solubility in other solvents : No data available

Partition coefficient: n-
 octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 5.000 mPa.s

Viscosity, kinematic : > 88 mm²/s (40 °C)
 Based on a similar product formulation.

> 5000 mm²/s (23 °C)

Oxidizing properties : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation may occur.



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Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Exposure to air.
Exposure to sunlight.

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids
aluminum
aluminum chloride
Bases
Copper
Copper alloys
fluorides
halogens
iron chloride
metal salts
strong bases
Strong oxidizing agents
Peroxides

10.6 Hazardous decomposition products

Hazardous decomposition products : aluminum oxides
carbon dioxide and carbon monoxide
Hydrocarbons

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

Styrene

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

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Acute inhalation toxicity : **LC50 (Rat): 11,8 mg/l, 2770 ppm**
 Exposure time: 4 h
 Test atmosphere: vapour

No observed adverse effect level (Humans): 100 ppm
 Exposure time: 7 h
 Test atmosphere: vapour

Acute dermal toxicity : **LD50 (Rat): > 2.000 mg/kg**
 Method: **OECD Test Guideline 402**
 Assessment: **No adverse effect has been observed in acute dermal toxicity tests.**

Components:

Stoddard solvent

Acute oral toxicity : **LD50 (Rat): > 5 g/kg**

Acute dermal toxicity : **LD50 (Rabbit): > 3 g/kg**
 Assessment: **Not classified as acutely toxic by dermal absorption under GHS.**

Components:

Cobalt bis(2-ethylhexanoate)

Acute oral toxicity : **LD50 (Rat, female): ca. 3.129 mg/kg**

Acute inhalation toxicity : **LC50 (Rat): > 10 mg/l**
 Exposure time: 1 h
 Test atmosphere: dust/mist
 Assessment: **Not classified as acutely toxic by inhalation under GHS.**

Acute dermal toxicity : **LD50 (Rabbit): > 5.000 mg/kg**

Components:

Potassium 2-ethylhexanoate

Acute oral toxicity : **LD50 (Rat): 3.640 mg/kg**
 Remarks: **Information given is based on data obtained from similar substances.**

Acute inhalation toxicity : **LC50 (Rat): > 0,11 mg/l**
 Exposure time: 8 h
 Test atmosphere: dust/mist
 Assessment: **Not classified as acutely toxic by inhalation**

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under GHS.
 Remarks: No mortality observed at this dose.
 Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.
 Remarks: Information given is based on data obtained from similar substances.

Components:

Solvent naphtha (petroleum), light arom.

Acute oral toxicity : LD50 (Rat): > 5.600 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 10.200 mg/m³
 Exposure time: 4 h
 Test atmosphere: vapour
 Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD50 (Rabbit): > 4.000 mg/kg

Components:

2-Methylhydroquinone

Acute oral toxicity : LD50 (Mouse): > 400 mg/kg
 LD50 (Rat): 754 mg/kg

Acute dermal toxicity : LD50 (Guinea pig): > 1.000 mg/kg
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Components:

Titanium dioxide

Acute oral toxicity : LD50 (Rat): > 24.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 6,82 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD50 (Rabbit): > 10.000 mg/kg

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Components:

Aluminium hydroxide

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

LD50 (Rat, female): > 2.000 mg/kg

Method: OECD Test Guideline 423

GLP: yes

Assessment: No adverse effect has been observed in acute oral toxicity tests.

Acute inhalation toxicity : LC50 (Rat): > 2,3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: Not classified as acutely toxic by inhalation under GHS.

Remarks: Information given is based on data obtained from similar substances.

Components:

Talc

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 423

Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

Styrene

Species: Rabbit

Result: Irritating to skin.

Species: human skin

Result: No skin irritation

Stoddard solvent

Result: Slight, transient irritation

Cobalt bis(2-ethylhexanoate)

Result: No skin irritation

Potassium 2-ethylhexanoate

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Species: **Rabbit**
 Method: **OECD Test Guideline 404**
 Result: **Irritating to skin.**
 GLP: **yes**

Solvent naphtha (petroleum), light arom.

Result: **Slight, transient irritation**

Result: **Repeated exposure may cause skin dryness or cracking.**

2-Methylhydroquinone

Result: **Irritating to skin.**

Titanium dioxide

Result: **Slight, transient irritation**

Aluminium hydroxide

Species: **Rabbit**
 Method: **OECD Test Guideline 404**
 Result: **No skin irritation**
 GLP: **yes**

Talc

Species: **reconstructed human epidermis (RhE)**
 Result: **No skin irritation**

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Styrene

Result: **Irritating to eyes.**

Remarks: **Vapour during processing may be irritating to the respiratory tract and to the eyes.**

Stoddard solvent

Result: **Slight, transient irritation**

Cobalt bis(2-ethylhexanoate)

Species: **Rabbit**
 Method: **OECD Test Guideline 405**
 Result: **Irritating to eyes.**

Potassium 2-ethylhexanoate

Result: **Slight, transient irritation**

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Solvent naphtha (petroleum), light arom.

Result: **Slight, transient irritation**

2-Methylhydroquinone

Result: **Irritating to eyes.**

Titanium dioxide

Result: **Slight, transient irritation**

Aluminium hydroxide

Species: **Rabbit**

Method: **OECD Test Guideline 405**

Result: **No eye irritation**

GLP: **yes**

Talc

Species: **Rabbit**

Method: **OECD Test Guideline 405**

Result: **Slight, transient irritation**

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

Styrene

Exposure routes: **Skin contact**

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

Exposure routes: **inhalation (vapour)**

Species: **Humans**

Assessment: **Does not cause respiratory sensitisation.**

Cobalt bis(2-ethylhexanoate)

Test Type: **Local lymph node assay**

Species: **Mouse**

Assessment: **The product is a skin sensitiser, sub-category 1A.**

Method: **OECD Test Guideline 429**

Remarks: **Information given is based on data obtained from similar substances.**

2-Methylhydroquinone

Exposure routes: **Dermal**

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

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Aluminium hydroxide

Test Type: **Maximisation Test**Species: **Guinea pig**Method: **OECD Test Guideline 406**GLP: **yes**

Talc

Test Type: **Maximisation Test**Species: **Guinea pig**Method: **OECD Test Guideline 406****Germ cell mutagenicity**

Not classified based on available information.

Components:

Cobalt bis(2-ethylhexanoate)

Genotoxicity in vitro : Test Type: **Ames test**
 Result: **negative**

Genotoxicity in vivo : Test Type: **In vivo micronucleus test**
 Result: **negative**

Talc

Genotoxicity in vitro : Test Type: **In vitro gene mutation study in bacteria**
 Test species: **Salmonella typhimurium**
 Metabolic activation: **with and without metabolic activation**
 Result: **negative**

: Test Type: **In vitro gene mutation study in bacteria**
 Test species: **Saccharomyces cerevisiae**
 Metabolic activation: **with and without metabolic activation**
 Result: **negative**

Genotoxicity in vivo : Test Type: **dominant lethal test**
 Test species: **Rat (male)**
 Cell type: **Bone marrow**
 Result: **negative**

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging the unborn child.

Components:

Styrene

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Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

Cobalt bis(2-ethylhexanoate)

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

Potassium 2-ethylhexanoate

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

May cause respiratory irritation.

Components:

Styrene

Assessment: May cause respiratory irritation.

Stoddard solvent

Assessment: May cause drowsiness or dizziness.

Solvent naphtha (petroleum), light arom.

Assessment: May cause respiratory irritation.

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Causes damage to organs (Auditory organs) through prolonged or repeated exposure if inhaled.

Components:

Styrene

Exposure routes: inhalation (vapour)

Target Organs: Auditory system

Assessment: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity**Components:**

Styrene

Species: Human

85 mg/m³

Application Route: inhalation (vapour)

Species: Human

615 mg/kg

Application Route: Skin contact

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Aspiration toxicity

Not classified based on available information.

Components:

Styrene

May be fatal if swallowed and enters airways.

Stoddard solvent

May be fatal if swallowed and enters airways.

Solvent naphtha (petroleum), light arom.

May be fatal if swallowed and enters airways.**SECTION 12: Ecological information****12.1 Toxicity****Components:**

Styrene

Toxicity to fish : **LC50 (Pimephales promelas (fathead minnow)): 4,02 mg/l**
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 4,7 mg/l**
 Exposure time: 48 h

Toxicity to algae : **ErC50 (Pseudokirchneriella subcapitata (green algae)): 4,9 mg/l**
 Exposure time: 72 h

EC10 (Pseudokirchneriella subcapitata (green algae)): 0,28 mg/l
 Exposure time: 96 h

Toxicity to bacteria : **EC50 (activated sludge): ca. 500 mg/l**
 Exposure time: 0,5 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC: 1,01 mg/l**
 Exposure time: 21 d
 Species: **Daphnia magna (Water flea)**

Toxicity to soil dwelling organisms : **NOEC: 34 mg/kg**
 Exposure time: 14 d
 Species: **Eisenia fetida (earthworms)**

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Method: **OECD Test Guideline 207**

Stoddard solvent
 Ecotoxicology Assessment

Acute aquatic toxicity : **Toxic to aquatic life.**Chronic aquatic toxicity : **Toxic to aquatic life with long lasting effects.**

Cobalt bis(2-ethylhexanoate)

M-Factor (Acute aquatic toxicity) : **1**

Ecotoxicology Assessment

Acute aquatic toxicity : **Acute aquatic toxicity Category 1**Chronic aquatic toxicity : **Chronic aquatic toxicity Category 3**

Potassium 2-ethylhexanoate

Toxicity to fish : **LC50 (Fish): > 100 mg/l**
 Exposure time: **96 h**
 Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 106 mg/l**
 Exposure time: **48 h**
 Test Type: **static test**
 Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to algae : **EC50 (Desmodesmus subspicatus (green algae)): 49,3 mg/l**
 End point: **Growth inhibition**
 Exposure time: **72 h**
 Test Type: **static test**
 Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC: 25 mg/l**
 Exposure time: **21 d**
 Species: **Daphnia magna (Water flea)**
 Test Type: **static test**
 Remarks: **Information given is based on data obtained from similar substances.**

Solvent naphtha (petroleum), light arom.



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Ecotoxicology Assessment

Acute aquatic toxicity : **Toxic to aquatic life.**

Chronic aquatic toxicity : **Toxic to aquatic life with long lasting effects.**

2-Methylhydroquinone

Toxicity to fish : **LC50 (Pimephales promelas (fathead minnow)): 0,09 mg/l**
Exposure time: **96 h**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 0,19 mg/l**
Exposure time: **48 h**

M-Factor (Acute aquatic toxicity) : **10**

Titanium dioxide

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): > 1.000 mg/l**
Exposure time: **48 h**
Test Type: **static test**

12.2 Persistence and degradability

Components:

Styrene

Biodegradability : Result: **Readily biodegradable.**
Biodegradation: **> 60 %**
Exposure time: **10 d**

Cobalt bis(2-ethylhexanoate)

Biodegradability : Result: **Readily biodegradable.**
Biodegradation: **60 %**
Exposure time: **10 d**
Method: **OECD Test Guideline 301B**

Potassium 2-ethylhexanoate

Biodegradability : Result: **Readily biodegradable.**
Biodegradation: **99 %**
Exposure time: **28 d**
Remarks: **Information given is based on data obtained from similar substances.**

2-Methylhydroquinone

Biochemical Oxygen Demand (BOD) : **940 mg/g**
Incubation time: **5 d**

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Chemical Oxygen Demand (COD) : 1.970 mg/g

BOD/COD : BOD/COD: 0,48 %

Talc

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential**Components:**

Styrene

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-octanol/water : log Pow: 2,96 (25 °C)

2-Methylhydroquinone

Partition coefficient: n-octanol/water : log Pow: 1,58

12.4 Mobility in soil**Components:**

Styrene

Distribution among environmental compartments : Koc: 352

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

Styrene

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

12.6 Other adverse effects

No data available

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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Dispose of in accordance with the European Directives on waste and hazardous waste.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Container hazardous when empty.

Dispose of in accordance with local regulations.

Contaminated packaging : **Empty remaining contents.**
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information**SECTION 14: Transport information****14.1 UN number**

ADN: UN1866

ADR: UN1866

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN1866

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN1866

INTERNATIONAL MARITIME DANGEROUS GOODS: UN1866

RID: UN1866

14.2 UN proper shipping name

ADN: RESIN SOLUTION

ADR: RESIN SOLUTION

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Resin solution

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Resin solution

INTERNATIONAL MARITIME DANGEROUS GOODS: RESIN SOLUTION

RID: RESIN SOLUTION

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14.3 Transport hazard class(es)**ADN:** 3**ADR:** 3**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** 3**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** 3**INTERNATIONAL MARITIME DANGEROUS GOODS:** 3**RID:** 3**14.4 Packing group****ADN:** III**ADR:** III**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** III**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** III**INTERNATIONAL MARITIME DANGEROUS GOODS:** III**RID:** III**14.5 Environmental hazards****ADN:** Not applicable**ADR:** Not applicable**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable**RID:** Not applicable**14.6 Special precautions for user**

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No 1005/2009 on substances that
 deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic
 pollutants : Not applicable

REACH - List of substances subject to authorisation
 (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on
 the market and use of certain dangerous substances,
 preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High
 Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 649/2012 of the European
 Parliament and the Council concerning the export and
 import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of
 major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

Other regulations : Act of 25 February 2011 on the Chemical Substances and
 Their Mixtures (consolidated text Dz. U. 2015, item 1203).
 Regulation (EC) No 1272/2008 of the European Parliament
 and of the Council of 16 December 2008 on classification,
 labelling and packaging of substances and mixtures,
 amending and repealing Directives 67/548/EEC and
 1999/45/EC, and amending Regulation (EC) No 1907/2006
 (Official Journal of the European Union L 353 from
 31.12.2008) with further adaptation to technical progress (ATP
 1-7).
 Regulation (EC) No 1907/2006 of the European Parliament
 and of the Council of 18 December 2006 concerning the



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Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).
Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Ordinance of the Minister of Health of 10 August 2012 concerning the criteria and procedure of classification of chemical substances and their mixtures (consolidated text Dz. U. of 2015., pos. 208).
Ordinance of the Minister of Economy, Labour and Social Policy of 21st December 2005 concerning the basic requirements for personal protective equipment (Dz. U. Nr. 259, item 2173).
Ordinance of the Minister of Labour and Social Policy of 6 June 2014. On maximum permissible concentration and intensity of harmful factors in the work environment (OJ 2014 pos. 817).
Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166).
Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (Dz. U. from 2005, Nr. 11, item 86, as amended).
Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended).
Act of 13 June 2013. On packaging and packaging waste Journal. U. of 2013. Item. 888, as amended).
Ordinance of the Minister of Environment of 9th December 2014 on Waste Catalog (Dz. U. 2014 item 1923).
Ordinance of the Minister of Environment on the requirements for carrying out the process of thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)
Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amended).
Government Statement of 26 July 2005 on enforcing of changes Annexes A and B of European Agreement

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concerning international transport of dangerous goods by road (ADR) (Dz. U. Nr. 178, item 1481, as amended).

Ordinance of the Minister of Health of 20th April 2012 concerning labeling of containers of dangerous substances and dangerous mixtures and some mixtures ((consolidated text) Dz. U. z 2015 nr. 0 poz. 450).

Ordinance of the Minister of Health of 11th June 2012 concerning categories of dangerous substances and dangerous mixtures for which containers must be fitted with child-resistant fastenings and a tactile warning of danger (Dz. U. from 2012, item 688 as amended).

Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

Pregnant women may only work with or be exposed to this product if, based on a risk assessment in the context of the activities and risk management measures taken, the exposure will not lead to any injury for mother and/or child (Maternity Protection Directive 92/85/EC as amended).

The components of this product are reported in the following inventories:

DSL	: This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.
AICS	Not in compliance with the inventory
ENCS	Not in compliance with the inventory
KECI	Not in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TSCA	On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)



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15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

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Classification procedure:

H226	Flammable liquid and vapour.	Based on product data or assessment
H315	Causes skin irritation.	Calculation method
H319	Causes serious eye irritation.	Calculation method
H317	May cause an allergic skin reaction.	Calculation method
H361d	Suspected of damaging the unborn child.	Calculation method
H335	May cause respiratory irritation.	Calculation method
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.	Calculation method
H412	Harmful to aquatic life with long lasting effects.	Calculation method

Full text of H-Statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.



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Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
BEI : Biological Exposure Index
CAS : Chemical Abstracts Service (Division of the American Chemical Society).
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
FG : Food grade
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
H-statement : Hazard Statement
IATA : International Air Transport Association.
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO : International Civil Aviation Organization
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
IMDG : International Maritime Code for Dangerous Goods
ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx : Lethal Dose, for xx percent of test population.
ICxx : Inhibitory Concentration for xx of a substance
Ecxx : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

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PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-phrase : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-phrase: Safety phrase

WGK : German Water Hazard Class