

MOLYKOTE(R) 3400A AERO ANTI-FRICTION COATING

Version	Revision Date:	SDS Number:	Date of last issue: 26.10.2015
5.0	10.02.2016	709976-00005	Date of first issue: 04.11.2014

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

1.1 Product identifier

Trade name : MOLYKOTE(R) 3400A AERO ANTI-FRICTION COATING

Product code : 000000000004057854, 000000000004057854

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

Use of the Sub-
stance/Mixture : Lubricants and lubricant additives

1.3 Details of the supplier of the safety data sheet

Company : Dow Corning Europe S.A.
rue Jules Bordet - Parc Industriel - Zone C
B-7180 Seneffe

Telephone : English Tel: +49 611237507
Deutsch Tel: +49 611237500
Français Tel: +32 64511149
Italiano Tel: +32 64511170
Español Tel: +32 64511163

Telefax :

E-mail address of person
responsible for the SDS : sdseu@dowcorning.com

1.4 Emergency telephone number

Dow Corning (Barry U.K. 24h) Tél: +44 1446732350
Dow Corning (Wiesbaden 24h) Tél: +49 61122158
Dow Corning (Seneffe 24h) Tel: +32 64 888240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 1B	H350i: May cause cancer by inhalation.
Reproductive toxicity, Category 1B	H360F: May damage fertility.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.

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Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.
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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	  																
Signal word	:	Danger																
Hazard statements	:	<table border="0"> <tr> <td>H225</td> <td>Highly flammable liquid and vapour.</td> </tr> <tr> <td>H317</td> <td>May cause an allergic skin reaction.</td> </tr> <tr> <td>H319</td> <td>Causes serious eye irritation.</td> </tr> <tr> <td>H336</td> <td>May cause drowsiness or dizziness.</td> </tr> <tr> <td>H350i</td> <td>May cause cancer by inhalation.</td> </tr> <tr> <td>H360F</td> <td>May damage fertility.</td> </tr> <tr> <td>H412</td> <td>Harmful to aquatic life with long lasting effects.</td> </tr> </table>	H225	Highly flammable liquid and vapour.	H317	May cause an allergic skin reaction.	H319	Causes serious eye irritation.	H336	May cause drowsiness or dizziness.	H350i	May cause cancer by inhalation.	H360F	May damage fertility.	H412	Harmful to aquatic life with long lasting effects.		
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Supplemental Hazard Statements	:	<table border="0"> <tr> <td>EUH066</td> <td>Repeated exposure may cause skin dryness or cracking.</td> </tr> </table>	EUH066	Repeated exposure may cause skin dryness or cracking.														
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Precautionary statements	:	<table border="0"> <tr> <td>Prevention:</td> <td></td> </tr> <tr> <td>P201</td> <td>Obtain special instructions before use.</td> </tr> <tr> <td>P210</td> <td>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</td> </tr> <tr> <td>P261</td> <td>Avoid breathing spray.</td> </tr> <tr> <td>P271</td> <td>Use only outdoors or in a well-ventilated area.</td> </tr> <tr> <td>P280</td> <td>Wear protective gloves/ protective clothing/ eye protection/ face protection.</td> </tr> <tr> <td>Response:</td> <td></td> </tr> <tr> <td>P308 + P313</td> <td>IF exposed or concerned: Get medical advice/ attention.</td> </tr> </table>	Prevention:		P201	Obtain special instructions before use.	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	P261	Avoid breathing spray.	P271	Use only outdoors or in a well-ventilated area.	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	Response:		P308 + P313	IF exposed or concerned: Get medical advice/ attention.
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Response:																		
P308 + P313	IF exposed or concerned: Get medical advice/ attention.																	

Hazardous components which must be listed on the label:

n-Butyl acetate

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200)

Cobalt bis(ethylhexanoate)

Cobalt naphthenate

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2.3 Other hazards

Static-accumulating flammable liquid.
Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Inorganic and organic compounds dispersion

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Butanone	78-93-3 201-159-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 10 - < 20
Ethanol	64-17-5 200-578-6	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 10 - < 20
Antimony trioxide	1309-64-4 215-175-0	Carc. 2; H351	>= 10 - < 20
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200)	25068-38-6 500-033-5	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 5 - < 10
Methanol	67-56-1 200-659-6 01-2119433307-44	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370	>= 0.1 - < 1
Cobalt bis(ethylhexanoate)	136-52-7 205-250-6	Acute Tox. 4; H302 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Muta. 2; H341 Carc. 1B; H350i Repr. 1B; H360Fd STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.3 - < 1
Cobalt naphthenate	61789-51-3 263-064-0	Skin Sens. 1; H317 Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0.1 - < 0.25

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Lead oxide	1317-36-8 215-267-0	Acute Tox. 4; H302 Acute Tox. 4; H332 Carc. 2; H351 Repr. 1A; H360FD Lact.H362 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0.032
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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|----------------------------|--|
| General advice | : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice. |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists. |
| If inhaled | : If inhaled, remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get medical attention. |
| In case of skin contact | : In case of contact, immediately flush skin with plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse. |
| In case of eye contact | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention. |
| If swallowed | : If swallowed, DO NOT induce vomiting.
Get medical attention.
Rinse mouth thoroughly with water. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|-------|---|
| Risks | : May cause an allergic skin reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.
May cause cancer by inhalation.
May damage fertility.
Repeated exposure may cause skin dryness or cracking. |
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
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 fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapours may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides
Metal oxides
Sulphur oxides
Chlorine compounds

5.3 Advice for firefighters

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

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.
Ventilate the area.
Use personal protective equipment.
Follow safe handling advice and personal protective equipment recommendations.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.

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Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapours/mists with a water spray jet.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : Ensure all equipment is electrically grounded before beginning transfer operations.
This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations.
Restrict flow velocity in order to reduce the accumulation of static electricity.

Local/Total ventilation : Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.
Do not breathe vapours or spray mist.
Do not swallow.
Do not get in eyes.
Handle in accordance with good industrial hygiene and safety practice.
Non-sparking tools should be used.
Keep container tightly closed.

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Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Advice on common storage : Do not store with the following product types:
Strong oxidizing agents
Organic peroxides
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures, which in contact with water, emit flammable gases
Explosives
Gases

7.3 Specific end use(s)

Specific use(s) : These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.
For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
n-Butyl acetate	123-86-4	TWA	150 ppm 724 mg/m ³	GB EH40
		STEL	200 ppm 966 mg/m ³	GB EH40
Butanone	78-93-3	TWA	200 ppm	2000/39/EC

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			600 mg/m3	
Further information	Indicative			
		STEL	300 ppm 900 mg/m3	2000/39/EC
Further information	Indicative			
		TWA	200 ppm 600 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	300 ppm 899 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
Ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
Antimony trioxide	1309-64-4	TWA	0.5 mg/m3 (antimony)	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
Molybdenum sulfide	1317-33-5	TWA	10 mg/m3 (Molybdenum)	GB EH40
		STEL	20 mg/m3 (Molybdenum)	GB EH40
Methanol	67-56-1	TWA	200 ppm 260 mg/m3	2006/15/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	200 ppm 266 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	250 ppm 333 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
Cobalt bis(ethylhexanoate)	136-52-7	TWA	0.1 mg/m3 (Cobalt)	GB EH40
Further information	Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitizers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitizer will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified			

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	asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagens? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used, Carcinogenic applies for cobalt dichloride and sulphate., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.			
Cobalt naphthenate	61789-51-3	TWA	0.1 mg/m3 (Cobalt)	GB EH40
Further information	Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitizer will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyper-responsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation			

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	by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagene? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used, Carcinogenic applies for cobalt dichloride and sulphate., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.			
Lead oxide	1317-36-8	TWA	0.15 mg/m ³ (Lead)	98/24/EC I
Further information	Binding			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Butanone	78-93-3	butan-2-one: 70 micromol per litre (Urine)	Post shift	GB EH40 BAT
Lead oxide	1317-36-8	Lead (Lead): 0.7 mg/l (Blood)		98/24/EC II

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

Substance name	End Use	Exposure routes	Potential health effects	Value
n-Butyl acetate	Workers	Inhalation	Acute systemic effects	960 mg/m ³
	Workers	Inhalation	Acute local effects	960 mg/m ³
	Workers	Inhalation	Long-term systemic effects	480 mg/m ³
	Workers	Inhalation	Long-term local effects	480 mg/m ³
	Consumers	Inhalation	Acute systemic effects	859.7 mg/m ³
	Consumers	Inhalation	Acute local effects	859.7 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	102.34 mg/m ³
	Consumers	Inhalation	Long-term local effects	102.34 mg/m ³
Butanone	Workers	Inhalation	Long-term systemic effects	600 mg/m ³
	Workers	Skin contact	Long-term systemic	1161 mg/kg

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			effects	bw/day
	Consumers	Inhalation	Long-term systemic effects	106 mg/m3
	Workers	Skin contact	Long-term systemic effects	412 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	31 mg/kg bw/day
Ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3
	Workers	Skin contact	Long-term systemic effects	343 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	950 mg/m3
	Consumers	Inhalation	Acute local effects	950 mg/m3
	Consumers	Skin contact	Long-term systemic effects	206 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	114 mg/m3
	Consumers	Ingestion	Long-term systemic effects	87 mg/kg bw/day
Antimony trioxide	Workers	Inhalation	Long-term local effects	0.5 mg/m3
	Workers	Skin contact	Long-term systemic effects	281 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	0.1 mg/m3
	Consumers	Skin contact	Long-term systemic effects	168.6 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	168.6 mg/kg bw/day
Methanol	Workers	Skin contact	Acute systemic effects	40 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	260 mg/m3
	Workers	Inhalation	Acute local effects	260 mg/m3
	Workers	Skin contact	Long-term systemic effects	40 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	260 mg/m3
	Workers	Inhalation	Long-term local effects	260 mg/m3

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	Workers	Skin contact	Acute systemic effects	8 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	50 mg/m3
	Workers	Ingestion	Acute systemic effects	8 mg/kg bw/day
	Workers	Inhalation	Acute local effects	50 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	50 mg/m3
	Workers	Ingestion	Long-term systemic effects	8 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	50 mg/m3
Cobalt bis(ethylhexanoate)	Workers	Inhalation	Long-term local effects	0.235 mg/m3
	Consumers	Inhalation	Long-term local effects	0.037 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0.558 mg/kg bw/day
Cobalt naphthenate	Workers	Inhalation	Long-term systemic effects	0.4494 mg/m3
	Consumers	Inhalation	Acute local effects	0.0708 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0.1067 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
n-Butyl acetate	Fresh water	0.18 mg/l
	Marine water	0.018 mg/l
	Intermittent use/release	0.36 mg/l
	Sewage treatment plant	35.6 mg/l
	Fresh water sediment	0.981 mg/kg
	Marine sediment	0.0981 mg/kg
	Soil	0.0903 mg/kg
Butanone	Fresh water	55.8 mg/l
	Marine water	55.8 mg/l
	Intermittent use/release	55.8 mg/l

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	Sewage treatment plant	709 mg/l
	Fresh water sediment	284.74 mg/kg
	Marine sediment	284.7 mg/kg
	Soil	22.5 mg/kg
	Oral	1000 mg/kg
Ethanol	Fresh water	0.96 mg/l
	Marine water	0.79 mg/l
	Intermittent use/release	2.75 mg/l
	Sewage treatment plant	580 mg/l
	Fresh water sediment	3.6 mg/kg
	Marine sediment	2.9 mg/kg
	Soil	0.63 mg/kg
	Oral	720 mg/kg
Antimony trioxide	Fresh water	0.113 mg/l
	Marine water	0.0113 mg/l
	Sewage treatment plant	2.55 mg/l
	Fresh water sediment	11.2 mg/kg
	Marine sediment	2.24 mg/kg
	Soil	37 mg/kg
Methanol	Fresh water	154 mg/l
	Marine water	15.4 mg/l
	Intermittent use/release	1540 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	570.4 mg/kg
	Soil	23.5 mg/kg
Cobalt bis(ethylhexanoate)	Fresh water	0.00051 mg/l
	Marine water	0.00236 mg/l
	Sewage treatment plant	0.37 mg/l
	Fresh water sediment	9.5 mg/kg
	Marine water	9.5 mg/kg
	Soil	7.9 mg/kg
Cobalt naphthenate	Fresh water	0.0006 mg/l
	Marine water	0.00236 mg/l
	Sewage treatment plant	0.37 mg/l

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	Fresh water sediment	9.5 mg/kg
	Marine sediment	9.5 mg/kg
	Soil	10.9 mg/kg
Lead oxide	Fresh water	6.5 µg/l
	Marine water	3.4 µg/l
	Sewage treatment plant	100 µg/l
	Fresh water sediment	174 mg/kg
	Marine sediment	164 mg/kg
	Soil	147 mg/kg
	Oral	10.9 mg/kg

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.
Use only in an area equipped with explosion proof exhaust ventilation.
Use with local exhaust ventilation.

Personal protective equipment

Eye protection : Wear the following personal protective equipment:
Safety goggles

Hand protection
Material : Antistatic gloves
Impervious gloves
Flame retardant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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Filter type : Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: Charcoal
Odour	: solvent-like
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: > 35 °C
Flash point	: 10 °C Method: closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 1.2
Solubility(ies)	
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: < 20.5 mm ² /s

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Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Molecular weight : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Highly flammable liquid and vapour.
Vapours may form explosive mixture with air.
Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : Handling operations that can promote accumulation of static charges.
Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h

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Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

Butanone:

Acute oral toxicity : LD50 (Rat): 3,460 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 7500 ppm
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Method: OECD Test Guideline 402

Ethanol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Antimony trioxide:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 420
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Methanol:

Acute oral toxicity : Acute toxicity estimate (Humans): 300 mg/kg

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Method: Expert judgement

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute dermal toxicity : Acute toxicity estimate (Humans): 300 mg/kg
Method: Expert judgement

Cobalt bis(ethylhexanoate):

Acute oral toxicity : LD50 (Rat): 594 mg/kg
Remarks: Based on data from similar materials

Cobalt naphthenate:

Acute oral toxicity : LD50 (Rat, female): 3,129 mg/kg
Method: OECD Test Guideline 425

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Lead oxide:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
Method: Expert judgement
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute inhalation toxicity : LC50 (Rat): > 5.05 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Components:

Butanone:

Assessment: Repeated exposure may cause skin dryness or cracking.

Ethanol:

Species: Rabbit
Method: OECD Test Guideline 404

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Result: No skin irritation

Antimony trioxide:

Species: Rabbit

Result: No skin irritation

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Result: Skin irritation

Methanol:

Species: Rabbit

Result: No skin irritation

Cobalt naphthenate:

Species: human skin

Method: OECD Test Guideline 431

Result: No skin irritation

Lead oxide:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Butanone:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritation to eyes, reversing within 21 days

Ethanol:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritation to eyes, reversing within 21 days

Antimony trioxide:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Result: Irritation to eyes, reversing within 21 days

Methanol:

Species: Rabbit

Result: No eye irritation

Cobalt bis(ethylhexanoate):

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Species: Rabbit
Method: OECD Test Guideline 405
Result: Irritation to eyes, reversing within 21 days

Cobalt naphthenate:

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation

Lead oxide:

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.

Components:

Butanone:

Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Ethanol:

Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Result: negative

Antimony trioxide:

Test Type: Maximisation Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Method: OECD Test Guideline 429
Result: positive
Remarks: Based on data from similar materials

Assessment: Probability or evidence of skin sensitisation in humans

Methanol:

Test Type: Maximisation Test

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Exposure routes: Skin contact
Species: Guinea pig
Result: negative

Cobalt bis(ethylhexanoate):

Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

Exposure routes: Inhalation
Species: Humans
Result: positive

Assessment: May cause sensitisation by inhalation.

Cobalt naphthenate:

Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

Lead oxide:

Test Type: Maximisation Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Butanone:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
	: Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
	: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)

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	Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative
Ethanol:	
	Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test Result: negative Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: negative
Antimony trioxide:	
	Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):	
	Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Methanol:	
	Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative

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Cobalt bis(ethylhexanoate):

- | | |
|------------------------------------|---|
| Genotoxicity in vitro | : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative |
| Genotoxicity in vivo | : Test Type: Chromosome aberration test in vitro
Species: Rat
Application Route: Ingestion
Result: positive
Remarks: Based on data from similar materials |
| Germ cell mutagenicity- Assessment | : Positive result(s) from in vivo mammalian somatic cell mutagenicity tests. |

Cobalt naphthenate:

- | | |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials |
| Genotoxicity in vivo | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials |

Lead oxide:

- | | |
|------------------------------------|---|
| Genotoxicity in vitro | : Test Type: In vitro sister chromatid exchange assay in mammalian cells
Result: negative
Remarks: Based on data from similar materials |
| Genotoxicity in vivo | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Rat
Application Route: Ingestion
Result: positive
Remarks: Based on data from similar materials

Test Type: DNA Repair
Species: Mouse
Application Route: inhalation (vapour)
Result: negative
Remarks: Based on data from similar materials |
| Germ cell mutagenicity- Assessment | : Weight of evidence does not support classification as a germ cell mutagen. |

Carcinogenicity

May cause cancer by inhalation.

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Components:

Antimony trioxide:

Species: Rat
Application Route: inhalation (dust/mist/fume)
Exposure time: 12 Months
Result: positive
Remarks: The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in inhalation studies with animals.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Species: Rat
Application Route: Ingestion
Exposure time: 24 month(s)
Method: OECD Test Guideline 453
Result: negative
Remarks: Based on data from similar materials

Methanol:

Species: Mouse
Application Route: inhalation (vapour)
Exposure time: 18 Months
Method: OECD Test Guideline 453
Result: negative

Cobalt bis(ethylhexanoate):

Species: Rat
Application Route: Inhalation
Exposure time: 105 weeks
Result: positive
Remarks: Based on data from similar materials

Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in inhalation studies with animals

Cobalt naphthenate:

Species: Mouse
Application Route: inhalation (vapour)
Exposure time: 105 weeks
Result: positive
Remarks: Based on data from similar materials

Species: Rat
Application Route: inhalation (vapour)
Exposure time: 105 weeks
Result: positive
Remarks: Based on data from similar materials

Lead oxide:

Species: Rat

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Application Route: Ingestion
Exposure time: 2 Years
Result: positive
Remarks: Based on data from similar materials

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

May damage fertility.

Components:

Butanone:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Inhalation
Method: OECD Test Guideline 414
Result: negative

Ethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Antimony trioxide:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: inhalation (dust/mist/fume)
Method: OECD Test Guideline 414
Result: negative

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion

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		Method: OECD Test Guideline 414 Result: negative Remarks: Based on data from similar materials
	Methanol:	
	Effects on fertility	: Test Type: Fertility/early embryonic development Species: Mouse Application Route: Ingestion Result: negative
	Effects on foetal development	: Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 414 Result: positive Remarks: The effects were seen only at maternally toxic doses.
	Cobalt bis(ethylhexanoate):	
	Effects on fertility	: Species: Rat Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
		Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
	Effects on foetal development	: Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
	Reproductive toxicity - Assessment	: Clear evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.
	Cobalt naphthenate:	
	Reproductive toxicity - Assessment	: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.
	Lead oxide:	
	Effects on fertility	: Test Type: Fertility Species: Rat Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
	Effects on foetal development	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion

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Result: positive
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Positive evidence of adverse effects on development from human epidemiological studies., Positive evidence of adverse effects on sexual function and fertility from human epidemiological studies., Studies indicating a hazard to babies during the lactation period

STOT - single exposure

May cause drowsiness or dizziness.

Components:

Butanone:

Assessment: May cause drowsiness or dizziness.

Methanol:

Target Organs: Eyes, Central nervous system
Assessment: Causes damage to organs.

STOT - repeated exposure

Not classified based on available information.

Components:

Antimony trioxide:

Exposure routes: inhalation (dust/mist/fume)
Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Cobalt bis(ethylhexanoate):

Exposure routes: Ingestion
Target Organs: Thyroid, Heart, Blood
Assessment: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

Exposure routes: inhalation (dust/mist/fume)
Target Organs: Respiratory system
Assessment: Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.

Lead oxide:

Target Organs: Central nervous system, Kidney, Blood
Assessment: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Butanone:

Species: Rat
NOAEL: 5014 ppm
Application Route: inhalation (vapour)

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Exposure time: 90 Days
Method: OECD Test Guideline 413

Ethanol:

Species: Rat
NOAEL: 2,400 mg/kg
Application Route: Ingestion
Exposure time: 2 yr

Antimony trioxide:

Species: Rat
NOAEL: 1,686 mg/kg
Application Route: Ingestion
Exposure time: 90 Days
Method: OECD Test Guideline 408

Species: Rat
NOAEL: ≥ 0.51 mg/m³
Application Route: inhalation (dust/mist/fume)
Exposure time: 1 yr

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Species: Rat
NOAEL: 50 mg/kg
LOAEL: 250 mg/kg
Application Route: Ingestion
Exposure time: 14 Weeks
Method: OECD Test Guideline 408
Remarks: Based on data from similar materials

Methanol:

Species: Rat
NOAEL: 1.06 mg/l
Application Route: inhalation (vapour)
Exposure time: 90 Days

Cobalt bis(ethylhexanoate):

Species: Rat
LOAEL: 5 mg/kg
Application Route: Ingestion
Exposure time: 8 Weeks
Remarks: Based on data from similar materials

Species: Rat
LOAEL: < 0.01 mg/l
Application Route: inhalation (dust/mist/fume)
Exposure time: 13 Weeks
Remarks: Based on data from similar materials

Cobalt naphthenate:

Species: Rat, female
NOAEL: 5 mg/kg

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Application Route: Ingestion
Exposure time: 47 Days
Method: OECD Test Guideline 422
Remarks: Based on data from similar materials

Lead oxide:

Species: Rat
NOAEL: 0.0015 mg/kg
LOAEL: 0.005 mg/kg
Application Route: Ingestion
Exposure time: 6 - 12 Months
Remarks: Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Butanone:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 2,993 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 308 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Selenastrum capricornutum (green algae)): 2,029 mg/l Exposure time: 96 h Method: OECD Test Guideline 201

Ethanol:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 9.6 mg/l Exposure time: 9 d Species: Daphnia magna (Water flea)

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Antimony trioxide:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 14.4 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 12.1 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 36.6 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 2.11 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: 4.5 mg/l
Exposure time: 28 d
Species: Pimephales promelas (fathead minnow)
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1.74 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Remarks: Based on data from similar materials

Methanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 22,000 mg/l
Exposure time: 96 h
Method: OPPTS 850.5400

Toxicity to bacteria : EC50 : 20,000 mg/l
Exposure time: 15 h

Toxicity to fish (Chronic toxicity) : NOEC: 15,800 mg/l
Exposure time: 200 h
Species: Oryzias latipes (Orange-red killifish)

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II

Cobalt bis(ethylhexanoate):

- | | |
|--|--|
| Toxicity to fish | : LC50 (Oncorhynchus tshawytscha (chinook salmon)): 2.062 mg/l
Exposure time: 14 d
Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Ceriodaphnia dubia (water flea)): 3.563 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials |
| Toxicity to algae | : EC50 (Champia parvula (marine algae)): 0.141 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials |
| | EC10 (Lemna minor (common duckweed)): 0.029 mg/l
Exposure time: 7 d
Remarks: Based on data from similar materials |
| M-Factor (Acute aquatic toxicity) | : 1 |
| Toxicity to bacteria | : EC50 : 120 mg/l
Exposure time: 30 min
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials |
| Toxicity to fish (Chronic toxicity) | : NOEC: 2.003 mg/l
Exposure time: 16 d
Species: Danio rerio (zebra fish)
Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : EC10: 0.026 mg/l
Exposure time: 28 d
Species: Daphnia magna (Water flea)
Remarks: Based on data from similar materials |
| M-Factor (Chronic aquatic toxicity) | : 1 |

Cobalt naphthenate:

- | | |
|---|--|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.512 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Ceriodaphnia dubia (water flea)): 0.605 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials |
| Toxicity to algae | : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.144 mg/l
Exposure time: 72 h |

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		Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		EC10 (Pseudokirchneriella subcapitata (green algae)): 0.156 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
M-Factor (Acute aquatic toxicity)	: 1	
Toxicity to bacteria	: EC50 : 120 mg/l Exposure time: 30 min Method: OECD Test Guideline 209 Remarks: Based on data from similar materials	
Toxicity to fish (Chronic toxicity)	: NOEC: 0.21 mg/l Exposure time: 34 d Species: Pimephales promelas (fathead minnow) Remarks: Based on data from similar materials	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0.413 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials	
Lead oxide:		
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.116 mg/l Exposure time: 96 h Remarks: Based on data from similar materials	
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Ceriodaphnia dubia (water flea)): 0.031 mg/l Exposure time: 48 h Remarks: Based on data from similar materials	
Toxicity to algae	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.027 mg/l Exposure time: 72 h Remarks: Based on data from similar materials	
		EC10 (Pseudokirchneriella subcapitata (green algae)): 6.59 µg/l Exposure time: 72 h Remarks: Based on data from similar materials
M-Factor (Acute aquatic toxicity)	: 10	
Toxicity to fish (Chronic toxicity)	: EC10: 21.6 µg/l Exposure time: 30 d Species: Pimephales promelas (fathead minnow)	

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Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 1.84 µg/l
Exposure time: 7 d
Species: Ceriodaphnia dubia (water flea)
Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 10

12.2 Persistence and degradability

Components:

Butanone:

Biodegradability : Result: Readily biodegradable
Biodegradation: 98 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Ethanol:

Biodegradability : Result: Readily biodegradable
Biodegradation: 84 %
Exposure time: 20 d

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight > 700 - 1200):

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 5 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Methanol:

Biodegradability : Result: Readily biodegradable
Biodegradation: 95 %
Exposure time: 20 d

12.3 Bioaccumulative potential

Components:

Butanone:

Partition coefficient: n-octanol/water : log Pow: 0.3

Ethanol:

Partition coefficient: n-octanol/water : log Pow: -0.35

Methanol:

Bioaccumulation : Species: Leuciscus idus (Golden orfe)
Bioconcentration factor (BCF): < 10

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Partition coefficient: n-octanol/water : log Pow: -0.77

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN	: UN 1993
ADR	: UN 1993
RID	: UN 1993
IMDG	: UN 1993
IATA	: UN 1993

14.2 UN proper shipping name

ADN	: FLAMMABLE LIQUID, N.O.S. (Butanone, Ethanol)
ADR	: FLAMMABLE LIQUID, N.O.S. (Butanone, Ethanol)
RID	: FLAMMABLE LIQUID, N.O.S. (Butanone, Ethanol)
IMDG	: FLAMMABLE LIQUID, N.O.S. (Butanone, Ethanol)
IATA	: Flammable liquid, n.o.s. (Butanone, Ethanol)

14.3 Transport hazard class(es)

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ADN	: 3
ADR	: 3
RID	: 3
IMDG	: 3
IATA	: 3

14.4 Packing group

ADN	
Packing group	: II
Classification Code	: F1
Hazard Identification Number	: 33
Labels	: 3

ADR	
Packing group	: II
Classification Code	: F1
Hazard Identification Number	: 33
Labels	: 3
Tunnel restriction code	: (D/E)

RID	
Packing group	: II
Classification Code	: F1
Hazard Identification Number	: 33
Labels	: 3

IMDG	
Packing group	: II
Labels	: 3
EmS Code	: F-E, <u>S-E</u>

IATA (Cargo)	
Packing instruction (cargo aircraft)	: 364
Packing instruction (LQ)	: Y341
Packing group	: II
Labels	: Flammable Liquids

IATA (Passenger)	
Packing instruction (passenger aircraft)	: 353
Packing instruction (LQ)	: Y341
Packing group	: II
Labels	: Flammable Liquids

14.5 Environmental hazards

ADN	
Environmentally hazardous	: no

ADR	
Environmentally hazardous	: no

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RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

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

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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

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

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

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

P5c	FLAMMABLE LIQUIDS	Quantity 1 5,000 t	Quantity 2 50,000 t
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Other regulations : Take note of Dir 94/33/EC on the protection of young people at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

REACH : All ingredients (pre-)registered or exempt.

TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical

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Substances.

- | | |
|-----------|--|
| AICS | : One or more ingredients are not listed or exempt. |
| IECSC | : All ingredients listed or exempt. |
| ENCs/ISHL | : Consult your local Dow Corning office. |
| DSL | : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL). |

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of H-Statements

- | | |
|--------|--|
| H225 | : Highly flammable liquid and vapour. |
| H301 | : Toxic if swallowed. |
| H302 | : Harmful if swallowed. |
| H311 | : Toxic in contact with skin. |
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H319 | : Causes serious eye irritation. |
| H331 | : Toxic if inhaled. |
| H332 | : Harmful if inhaled. |
| H334 | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H336 | : May cause drowsiness or dizziness. |
| H341 | : Suspected of causing genetic defects. |
| H350i | : May cause cancer by inhalation. |
| H351 | : Suspected of causing cancer. |
| H351 | : Suspected of causing cancer if inhaled. |
| H360Fd | : May damage fertility. Suspected of damaging the unborn child. |
| H360FD | : May damage fertility. May damage the unborn child. |
| H361 | : Suspected of damaging fertility or the unborn child. |
| H362 | : May cause harm to breast-fed children. |
| H370 | : Causes damage to organs. |
| H372 | : Causes damage to organs through prolonged or repeated exposure. |
| 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. |

Full text of other abbreviations

- | | |
|-----------------|----------------------------|
| Acute Tox. | : Acute toxicity |
| Aquatic Acute | : Acute aquatic toxicity |
| Aquatic Chronic | : Chronic aquatic toxicity |
| Carc. | : Carcinogenicity |
| Eye Irrit. | : Eye irritation |
| Flam. Liq. | : Flammable liquids |

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Lact.	: Effects on or via lactation
Muta.	: Germ cell mutagenicity
Repr.	: Reproductive toxicity
Resp. Sens.	: Respiratory sensitisation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2006/15/EC	: Europe. Indicative occupational exposure limit values
98/24/EC I	: Europe. Chemical Agents Directive - Annex I: Binding occupational exposure limit values
98/24/EC II	: Chemical Agents Directive - Annex II: Binding biological limit values
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT	: UK. Biological monitoring guidance values
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
2006/15/EC / TWA	: Limit Value - eight hours
98/24/EC I / TWA	: Occupational Exposure Limit Value
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature;

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SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN