

Antigravel Aerosol

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

1.1 Product identifier:

Product name : Antigravel Aerosol
 Registration number REACH : Not applicable (mixture)
 Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Anti-corrosion agent
 Coating

1.2.2 Uses advised against

No uses advised against known

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet

SOUDAL N.V.
 Everdongenlaan 18-20
 B-2300 Turnhout
 ☎ +32 14 42 42 31
 ☐ +32 14 42 65 14
 msds@soudal.com

Manufacturer of the product

SOUDAL N.V.
 Everdongenlaan 18-20
 B-2300 Turnhout
 ☎ +32 14 42 42 31
 ☐ +32 14 42 65 14
 msds@soudal.com

1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch):
 +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Aerosol	category 1	H222: Extremely flammable aerosol.
Aerosol	category 1	H229: Pressurised container: May burst if heated.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
STOT SE	category 3	H336: May cause drowsiness or dizziness.
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

F+; R12 - Extremely flammable.

Xi; R36/38 - Irritating to eyes and skin.

R67 - Vapours may cause drowsiness and dizziness.

N; R51-53 - Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)



Antigravel Aerosol

Contains: n-butyl acetate; ethyl acetate.

Signal word

Danger

H-statements

- H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

P-statements

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P280 Wear protective gloves, protective clothing and eye protection/face protection.
P312 Call a POISON CENTER/doctor if you feel unwell.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labels



Extremely flammable



Irritant



Dangerous for the environment

R-phrases

- 36/38 Irritating to eyes and skin
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
67 Vapours may cause drowsiness and dizziness

S-phrases

- 02 Keep out of the reach of children
16 Keep away from sources of ignition - No smoking
23 Do not breathe spray
24 Avoid contact with skin
51 Use only in well-ventilated areas
57 Use appropriate container to avoid environmental contamination
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Additional recommendations

- Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.

2.3 Other hazards:

CLP

- May be ignited by sparks
Gas/vapour spreads at floor level: ignition hazard

DSD/DPD

- May be ignited by sparks
Gas/vapour spreads at floor level: ignition hazard
Aerosol may explode under the effect of heat

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
n-butyl acetate 01-2119485493-29	123-86-4 204-658-1	10%≤C<2 5%	R10 R66 R67	Flam. Liq. 3; H226 STOT SE 3; H336	(1)(2)(10)	Constituent

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Date of revision: 2015-05-15

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Product number: 33986

2 / 25

Antigravel Aerosol

propane 01-2119486944-21	74-98-6 200-827-9	10%≤C<25%	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
butane 01-2119474691-32	106-97-8 203-448-7	10%≤C<25%	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
ethyl acetate 01-2119475103-46	141-78-6 205-500-4	10%≤C<25%	F; R11 Xi; R36 R66 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
Naphtha (petroleum), hydrotreated light 01-2119475133-43	64742-49-0 265-151-9	7%≤C<20%	F; R11 Xn; R65 Xi; R38 R67 N; R51-53	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(2)(10)	UVCB
butanone 01-2119457290-43	78-93-3 201-159-0	5%≤C<10%	F; R11 Xi; R36 R66 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
cyclohexane 01-2119463273-41	110-82-7 203-806-2	1%≤C<5%	F; R11 Xn; R65 Xi; R38 R67 N; R50-53	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(10)	Constituent
Solvent naphtha (petroleum), light arom. 01-2119486773-24	64742-95-6 265-199-0	1%≤C<5%	Xn; R65 Xi; R38 R10 R67 N; R51-53	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	UVCB

- (1) For R-phrases and H-statements in full: see heading 16
 (2) Substance with a Community workplace exposure limit
 (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Headache. Dizziness. Coordination disorders. Feeling of weakness. Nausea. Dry/sore throat. Narcosis.

After skin contact:

Tingling/irritation of the skin. Red skin.

After eye contact:

Redness of the eye tissue. Irritation of the eye tissue.

After ingestion:

Nausea. Vomiting.

4.2.2 Delayed symptoms

No effects known.

4.3 Indication of any immediate medical attention and special treatment needed:

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

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Antigravel Aerosol

5.1.1 Suitable extinguishing media:

BC powder. Carbon dioxide. MAJOR FIRE: Water spray. Alcohol-resistant foam.

5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium.

5.2 Special hazards arising from the substance or mixture:

Upon combustion: CO and CO₂ are formed.

5.3 Advice for firefighters:

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective goggles. Head/neck protection. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective goggles. Head/neck protection. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Dam up the liquid spill. Use appropriate containment to avoid environmental contamination.

6.3 Methods and material for containment and cleaning up:

Take up liquid spill into inert absorbent material, e.g.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Fireproof storeroom. Keep out of direct sunlight. Meet the legal requirements. Max. storage time: 365 day(s).

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

The Netherlands

2-Butanon	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	197 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	590 mg/m ³

Reason for revision: ATP4

Publication date: 2001-07-21

Date of revision: 2015-05-15

Revision number: 0300

Product number: 33986

4 / 25

Antigravel Aerosol

2-Butanon	Short time value (Public occupational exposure limit value)	300 ppm
	Short time value (Public occupational exposure limit value)	900 mg/m ³
Cyclohexaan	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	200 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	700 mg/m ³
	Short time value (Public occupational exposure limit value)	400 ppm
	Short time value (Public occupational exposure limit value)	1400 mg/m ³
Ethylacetaat	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	150 ppm
	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	550 mg/m ³
	Short time value (Private occupational exposure limit value)	300 ppm
	Short time value (Private occupational exposure limit value)	1100 mg/m ³
n-Butaan	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	592 ppm
	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	1430 mg/m ³
n-Butylacetaat	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	99 ppm
	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	480 mg/m ³
Olienevel (minerale olie)	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	5 mg/m ³

EU

Butanone	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	200 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	600 mg/m ³
	Short time value (Indicative occupational exposure limit value)	300 ppm
	Short time value (Indicative occupational exposure limit value)	900 mg/m ³
Cyclohexane	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	200 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	700 mg/m ³

Belgium

2-Butanone	Time-weighted average exposure limit 8 h	200 ppm
	Time-weighted average exposure limit 8 h	600 mg/m ³
	Short time value	300 ppm
	Short time value	900 mg/m ³
Acétate d'éthyle	Time-weighted average exposure limit 8 h	400 ppm
	Time-weighted average exposure limit 8 h	1461 mg/m ³
Acétate de n-butyle	Time-weighted average exposure limit 8 h	150 ppm
	Time-weighted average exposure limit 8 h	723 mg/m ³
	Short time value	200 ppm
	Short time value	964 mg/m ³
Cyclohexane	Time-weighted average exposure limit 8 h	100 ppm
	Time-weighted average exposure limit 8 h	350 mg/m ³
Huiles minérales (brouillards)	Time-weighted average exposure limit 8 h	5 mg/m ³
	Short time value	10 mg/m ³
Hydrocarbures aliphatiques sous forme gazeuse : (Alcanes C1-C4)	Time-weighted average exposure limit 8 h	1000 ppm

USA (TLV-ACGIH)

Butane, all isomers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1000 ppm
Cyclohexane	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	100 ppm
Ethyl acetate	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	400 ppm
Methyl ethyl ketone (MEK)	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	200 ppm
	Short time value (TLV - Adopted Value)	300 ppm
Mineral oil, pure, highly and severely refined	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	5 mg/m ³ (I)
n-Butyl acetate	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	150 ppm
	Short time value (TLV - Adopted Value)	200 ppm

(I): Inhalable fraction

Reason for revision: ATP4

Publication date: 2001-07-21

Date of revision: 2015-05-15

Revision number: 0300

Product number: 33986

5 / 25

Antigravel Aerosol

Germany

Butan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m ³
Butanon	Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	600 mg/m ³
Cyclohexan	Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	700 mg/m ³
Ethylacetat	Time-weighted average exposure limit 8 h (TRGS 900)	400 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	1500 mg/m ³
n-Butylacetat	Time-weighted average exposure limit 8 h (TRGS 900)	62 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	300 mg/m ³
Propan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m ³

France

Acétate de n-butyle	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	150 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	710 mg/m ³
	Short time value (VL: Valeur non réglementaire indicative)	200 ppm
	Short time value (VL: Valeur non réglementaire indicative)	940 mg/m ³
Acétate d'éthyle	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	400 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	1400 mg/m ³
Cyclohexane	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	200 ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	700 mg/m ³
	Short time value (VL: Valeur non réglementaire indicative)	375 ppm
	Short time value (VL: Valeur non réglementaire indicative)	1300 mg/m ³
Méthyléthylcétone	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	200 ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	600 mg/m ³
	Short time value (VRC: Valeur réglementaire contraignante)	300 ppm
	Short time value (VRC: Valeur réglementaire contraignante)	900 mg/m ³
n-Butane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	800 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	1900 mg/m ³

UK

Butan-2-one (methyl ethyl ketone)	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	200 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	600 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	300 ppm
	Short time value (Workplace exposure limit (EH40/2005))	899 mg/m ³
Butane	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	600 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1450 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	750 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1810 mg/m ³
Butyl acetate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	150 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	724 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	200 ppm
	Short time value (Workplace exposure limit (EH40/2005))	966 mg/m ³
Cyclohexane	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	100 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	350 mg/m ³

Reason for revision: ATP4

Publication date: 2001-07-21

Date of revision: 2015-05-15

Revision number: 0300

Product number: 33986

6 / 25

Antigravel Aerosol

Cyclohexane	Short time value (Workplace exposure limit (EH40/2005))	300 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1050 mg/m ³
Ethyl acetate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	200 ppm
	Short time value (Workplace exposure limit (EH40/2005))	400 ppm

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

2-Butanone (MEK) (Methyl ethyl ketone)	NIOSH	2500
2-Butanone (Methyl ethyl ketone)	OSHA	84
2-Butanone (organic and inorganic gases by Extractive FTIR)	NIOSH	3800
2-Butanone (Volatile Organic compounds)	NIOSH	2549
2-Butanone	OSHA	1004
2-Butanone	OSHA	13
ACETONE and METHYL ETHYL KETONE in urine	NIOSH	8319
Butyl acetate (Volatile Organic compounds)	NIOSH	2549
Cyclohexane (Hydrocarbons, BP36 to 126C)	NIOSH	1500
Cyclohexane	NIOSH	95-117
Cyclohexane	OSHA	7
Ethyl acetate (Volatile Organic compounds)	NIOSH	2549
Ethyl Acetate	NIOSH	1457
Ethyl Acetate	OSHA	7
MEK	NIOSH	8002
Methyl Ethyl Ketone (ketones I)	NIOSH	2555
Methyl Ethyl Ketone	OSHA	16
n-Butyl Acetate (Esters I)	NIOSH	1450
n-Butyl Acetate	OSHA	1009
Oil Mist (Mineral)	NIOSH	5026
Petroleum Distillate (Naphthas)	NIOSH	1550
Petroleum Distillates fractions	OSHA	48

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

DNEL - Workers

n-butyl acetate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	480 mg/m ³	
	Acute systemic effects inhalation	960 mg/m ³	
	Long-term local effects inhalation	480 mg/m ³	
	Acute local effects inhalation	960 mg/m ³	

ethyl acetate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	734 mg/m ³	
	Acute systemic effects inhalation	1468 mg/m ³	
	Long-term local effects inhalation	734 mg/m ³	
	Acute local effects inhalation	1468 mg/m ³	
	Long-term systemic effects dermal	63 mg/kg bw/day	

butanone

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	600 mg/m ³	
	Long-term systemic effects dermal	1161 mg/kg bw/day	

cyclohexane

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	700 mg/m ³	
	Acute systemic effects inhalation	700 mg/m ³	
	Long-term local effects inhalation	700 mg/m ³	
	Acute local effects inhalation	700 mg/m ³	
	Long-term systemic effects dermal	2016 mg/kg bw/day	

DNEL - General population

n-butyl acetate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	102.34 mg/m ³	
	Acute systemic effects inhalation	859.7 mg/m ³	
	Long-term local effects inhalation	102.34 mg/m ³	
	Acute local effects inhalation	859.7 mg/m ³	

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Publication date: 2001-07-21

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Product number: 33986

7 / 25

Antigravel Aerosol

ethyl acetate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	367 mg/m ³	
	Acute systemic effects inhalation	734 mg/m ³	
	Long-term local effects inhalation	367 mg/m ³	
	Acute local effects inhalation	734 mg/m ³	
	Long-term systemic effects dermal	37 mg/kg bw/day	
	Long-term systemic effects oral	4.5 mg/kg bw/day	

butanone

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	106 mg/m ³	
	Long-term systemic effects dermal	412 mg/kg bw/day	
	Long-term systemic effects oral	31 mg/kg bw/day	

cyclohexane

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	206 mg/m ³	
	Acute systemic effects inhalation	412 mg/m ³	
	Long-term local effects inhalation	206 mg/m ³	
	Acute local effects inhalation	412 mg/m ³	
	Long-term systemic effects dermal	1186 mg/kg bw/day	
	Long-term systemic effects oral	59.4 mg/kg bw/day	

PNEC

n-butyl acetate

Compartment	Value	Remark
Fresh water	0.18 mg/l	
Marine water	0.018 mg/l	
Aqua (intermittent releases)	0.36 mg/l	
STP	35.6 mg/l	
Fresh water sediment	0.981 mg/kg sediment dw	
Marine water sediment	0.0981 mg/kg sediment dw	
Soil	0.0903 mg/kg soil dw	

ethyl acetate

Compartment	Value	Remark
Fresh water	0.24 mg/l	
Marine water	0.024 mg/l	
Aqua (intermittent releases)	1.65 mg/l	
STP	650 mg/l	
Fresh water sediment	1.15 mg/kg sediment dw	
Marine water sediment	0.115 mg/kg sediment dw	
Soil	0.148 mg/kg soil dw	
Oral	0.2 g/kg food	

butanone

Compartment	Value	Remark
Fresh water	55.8 mg/l	
Marine water	55.8 mg/l	
Aqua (intermittent releases)	55.8 mg/l	
STP	709 mg/l	
Fresh water sediment	284.74 mg/kg sediment dw	
Marine water sediment	284.7 mg/kg sediment dw	
Soil	22.5 mg/kg soil dw	
Food	1000 mg/kg food	

cyclohexane

Compartment	Value	Remark
Fresh water	0.207 mg/l	
Marine water	0.207 mg/l	
Aqua (intermittent releases)	0.207 mg/l	
STP	3.24 mg/l	
Fresh water sediment	3.627 mg/kg sediment dw	
Marine water sediment	3.627 mg/kg sediment dw	
Soil	2.99 mg/kg soil dw	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

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8 / 25

Antigravel Aerosol

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

b) Hand protection:

Gloves.

Materials	Breakthrough time	Thickness
nitrile rubber	> 480 minutes	0.3 mm

- materials (good resistance)

Nitrile rubber.

c) Eye protection:

Protective goggles.

d) Skin protection:

Head/neck protection. Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Aerosol
Odour	Characteristic odour
Odour threshold	No data available
Colour	Black
Particle size	No data available
Explosion limits	1.2 - 10.9 vol %
Flammability	Extremely flammable aerosol.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	-44 °C
Flash point	< -20 °C
Evaporation rate	No data available
Relative vapour density	> 1
Vapour pressure	8300 hPa ; 20 °C
Solubility	water ; insoluble
Relative density	0.82
Decomposition temperature	No data available
Auto-ignition temperature	200 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

9.2 Other information:

Absolute density	820 kg/m³
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SECTION 10: Stability and reactivity

10.1 Reactivity:

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5 Incompatible materials:

No data available.

10.6 Hazardous decomposition products:

Upon combustion: CO and CO2 are formed.

Antigravel Aerosol

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

Antigravel Aerosol

No (test) data on the mixture available

n-butyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 423	12789 mg/kg		Rat (male)	Experimental value	
Oral	LD50	Equivalent to OECD 423	10760 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 14112 mg/kg bw	24 h	Rabbit (male/female)	Experimental value	
Inhalation (vapours)	LC50	OECD 403	> 21 mg/l air	4 h	Rat (male/female)	Experimental value	

ethyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	10200 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	24 hour cuff method	> 20000 mg/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation (vapours)	LC0	Equivalent to OECD 403	29.3 mg/l	4 h	Rat	Experimental value	

Naphtha (petroleum), hydrotreated light

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	> 5000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw	24 h	Rabbit (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 5610 mg/m ³ air	4 h	Rat (male/female)	Calculated value	

butanone

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 423	2193 mg/kg bw		Rat (male/female)	Read-across	
Dermal	LD50	Equivalent to OECD 402	> 10 ml/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation						Data waiving	

cyclohexane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	> 5000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw		Rabbit (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 32.88 mg/l air	4 h	Rat (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 19.07 mg/l	4 h	Rat (male/female)	Experimental value	

Solvent naphtha (petroleum), light arom.

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	> 5000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw	24 h	Rabbit (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 5.610 mg/l air	4 h	Rat (male/female)	Experimental value	
Inhalation (vapours)	LOAEL		4.320 mg/l air	1 h	Human (male)	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

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10 / 25

Antigravel Aerosol

Antigravel Aerosol

No (test)data on the mixture available

n-butyl acetate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatment
Skin	Not irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
Inhalation (vapours)	Slightly irritating	Human observation	3-5 minutes		Human	Experimental value	

ethyl acetate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	
Eye	Irritating; category 2					Annex VI	
Skin	Slightly irritating	Equivalent to OECD 404	24 h	24; 48; 72 hours	Rabbit	Experimental value	

Naphtha (petroleum), hydrotreated light

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatment
Skin	Irritating	OECD 404	4 h	1; 24; 48; 72; 168 hours	Rabbit	Experimental value	
Inhalation (vapours)	Not irritating		1 h		Human	Experimental value	

butanone

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	Equivalent to OECD 405		24; 72 hours	Rabbit	Experimental value	Single exposure
Skin	Not irritating	OECD 404	4 h	4; 24; 48; 72 hours	Rabbit	Read-across	

cyclohexane

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Slightly irritating	Equivalent to OECD 405		1 hour	Rabbit	Experimental value	
Skin	Not irritating	EU Method B.4	4 h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	Equivalent to OECD 404		24; 72 hours	Rabbit	Experimental value	
Inhalation	Irritating					Literature study	

Solvent naphtha (petroleum), light arom.

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single exposure
Skin	Irritating	OECD 404	4 h	1; 24; 48; 72; 168 hours	Rabbit	Experimental value	

Classification is based on the relevant ingredients

Conclusion

Causes skin irritation.

Causes serious eye irritation.

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

Antigravel Aerosol

No (test)data on the mixture available

n-butyl acetate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing		24 h	24 hours	Human	Inconclusive, insufficient data	

ethyl acetate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Intradermal	Not sensitizing	OECD 406	24 h	24; 48 hours	Guinea pig (female)	Experimental value	

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11 / 25

Antigravel Aerosol

Naphtha (petroleum), hydrotreated light

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406	6 h	24; 48 hours	Guinea pig (male)	Experimental value	

butanone

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (female)	Experimental value	

cyclohexane

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	EU Method B.6	6 h	24; 48 hours	Guinea pig (male/female)	Experimental value	

Solvent naphtha (petroleum), light arom.

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406	6 h	24; 48 hours	Guinea pig (male)	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity

Antigravel Aerosol

No (test)data on the mixture available

n-butyl acetate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Inhalation (vapours)	NOAEC	EPA OTS 798.2450	500 ppm		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)				Central nervous system	Drowsiness, dizziness			Literature study

ethyl acetate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	US EPA	900 mg/kg bw/day	General	No effect	90-92 day(s)	Rat (male/female)	Experimental value
Oral (stomach tube)	LOAEL	US EPA	3600 mg/kg bw/day	General	Body weight, organ weight, food consumption	90-92 day(s)	Rat (male/female)	Experimental value
Dermal								Data waiving
Inhalation	NOEC	EPA OTS 798.2450	350 ppm	General	No adverse systemic effects	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	NOEL		600 ppm	Central nervous system	No effect	6 h	Rat (male/female)	Experimental value
Inhalation (vapours)	LOEL		3000 ppm	Central nervous system	Narcosis	6 h	Rat (male/female)	Experimental value

Naphtha (petroleum), hydrotreated light

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOEL	Subacute toxicity test	< 500 mg/kg bw/day	Kidney	No effect	4 weeks (5 days/week)	Rat (male)	Experimental value
Dermal	NOAEL local effects	Equivalent to OECD 410	< 200 mg/kg bw/day	Skin	No effect	4 weeks (6h/day, 3 days/week)	Rabbit (male/female)	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	1402 mg/m³ air	General	No effect	107- 109 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	LOAEL		4320 mg/m³ air	Central nervous system	neurotoxic effects	1 h	Human (male/female)	Experimental value

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12 / 25

Antigravel Aerosol

butanone

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	5041 ppm		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)			STOT SE cat.3	Central nervous system	Drowsiness, dizziness			Annex VI

cyclohexane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation (vapours)	NOAEC	EPA OPPTS 870.3465	7000 ppm		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value

Solvent naphtha (petroleum), light arom.

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOEL	Subacute toxicity test	< 500 mg/kg bw/day	Kidney	No effect	4 weeks (5 days/week)	Rat (male)	Experimental value
Dermal	NOEL	Equivalent to OECD 410	> 2000 mg/kg bw/day	General	No adverse systemic effects	4 weeks (6h/day, 3 days/week)	Rabbit (male/female)	Experimental value
Dermal	NOEL	Equivalent to OECD 410	< 200 mg/kg bw/day	Skin	No irritation	4 weeks (6h/day, 3 days/week)	Rabbit (male/female)	Experimental value
Dermal	NOAEL	Equivalent to OECD 410	3750 mg/kg bw/day	General	No adverse systemic effects	4 weeks (daily)	Rat (male/female)	Experimental value
Dermal	NOAEL	Equivalent to OECD 410	< 375 mg/kg bw/day	Skin	No irritation	4 weeks (daily, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	1402 mg/m ³ air	General	No effect	107 - 109 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEC systemic effects	EPA OPPTS 870.3465	> 20000 mg/m ³ air	General	No adverse systemic effects	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEC local effects	EPA OPPTS 870.3465	10000 mg/m ³ air	Nose	No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 412	9840 mg/m ³ air	General	No effect	4 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
		Human observation		Central nervous system	Drowsiness, dizziness		Human	Literature study

Classification is based on the relevant ingredients

Conclusion

May cause drowsiness or dizziness.

Not classified for subchronic toxicity

Mutagenicity (in vitro)

Antigravel Aerosol

No (test) data on the mixture available

n-butyl acetate

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative without metabolic activation	Equivalent to OECD 473	Chinese hamster lung fibroblasts	No effect	Experimental value

ethyl acetate

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Chinese hamster ovary (CHO)	No effect	Experimental value
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

Naphtha (petroleum), hydrotreated light

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

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Antigravel Aerosol

butanone

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 473	Rat liver cells	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

cyclohexane

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value

Solvent naphtha (petroleum), light arom.

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

Mutagenicity (in vivo)

Antigravel Aerosol

No (test)data on the mixture available

n-butyl acetate

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474	24 h	Mouse (male/female)	Bone marrow	Read-across

ethyl acetate

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male)		Experimental value

Naphtha (petroleum), hydrotreated light

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 475	5 day(s)	Rat (male)		Experimental value

butanone

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male/female)		Experimental value

cyclohexane

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 475	5 days (6h/day)	Rat (male/female)	Bone marrow	Experimental value

Solvent naphtha (petroleum), light arom.

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 475	5 days (1x/day)	Rat (male)		Experimental value

Carcinogenicity

Antigravel Aerosol

No (test)data on the mixture available

n-butyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation						Data waiving		
Dermal						Data waiving		
Oral						Data waiving		

Naphtha (petroleum), hydrotreated light

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Dermal	NOAEL	Equivalent to OECD 451	0.05 ml	102 weeks (3 times/week)	Mouse (male)	Experimental value		No carcinogenic effect

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14 / 25

Antigravel Aerosol

Solvent naphtha (petroleum), light arom.

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Dermal	NOAEL	Equivalent to OECD 451	0.05 ml	102 weeks (3 times/week)	Mouse (male)	Experimental value		No carcinogenic effect

Reproductive toxicity

Antigravel Aerosol

No (test)data on the mixture available

n-butyl acetate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	LOAEC	Equivalent to OECD 414	1500 ppm	6 week(s)	Rat	Minor skeletal variations	Foetus	Experimental value
Maternal toxicity	LOAEC	Equivalent to OECD 414	1500 ppm	6 week(s)	Rat	Reduced food consumption	General	Experimental value
Effects on fertility	NOAEC	OECD 416	2000 ppm	70 day(s)	Rat (male/female)	No effect		Experimental value

ethyl acetate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	> 3600 mg/kg bw/day	7 day(s)	Mouse	No effect	Foetus	Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	2200 mg/kg bw/day	8-14 days (gestation, daily)	Mouse	No effect		Read-across
	LOAEL	Equivalent to OECD 414	3600 mg/kg bw/day	8-14 days (gestation, daily)	Mouse	Mortality	General	Read-across
Effects on fertility	NOAEL	Other	1500 ppm	13 weeks (6h/day, 5 days/week)	Rat (male)	Reduction in sperm motility	Testes	Experimental value

Naphtha (petroleum), hydrotreated light

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	23900 mg/m ³ air	14 days (6h/day)	Rat	No effect	Foetus	Experimental value
Maternal toxicity	NOAEL	Equivalent to OECD 414	23900 mg/m ³ air	14 day(s)	Rat	No effect		Experimental value
Effects on fertility	NOAEC (P/F1)	Equivalent to OECD 416	≥ 20000 mg/m ³ air	10 weeks (6h/day, 7 days/week)	Rat (male/female)	No effect		Experimental value

butanone

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	1002 ppm	10 days (7h/day)	Rat	No effect	Foetus	Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	1002 ppm	10 days (7h/day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL	Equivalent to OECD 416	1644 mg/kg bw/day - 1771 mg/kg bw/day		Rat (male/female)	No effect		Read-across

cyclohexane

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	7000 ppm	10 days (6h/day)	Rat	No effect		Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	2000 ppm	10 days (6h/day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEC	Equivalent to OECD 416	7000 ppm	>11 weeks (6h/day, 5 days/week)	Rat (male/female)	No effect		Experimental value

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15 / 25

Antigravel Aerosol

Solvent naphtha (petroleum), light arom.

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	23900 mg/m ³ air	14 days (6h/day)	Rat	No effect	Foetus	Experimental value
Maternal toxicity	NOAEL	Equivalent to OECD 414	23900 mg/m ³ air	14 days (6h/day)	Rat	No effect		Experimental value
Effects on fertility	NOAEC (P/F1)	Equivalent to OECD 416	≥ 20000 mg/m ³ air	13 weeks (6h/day, 7 days/week)	Rat (male/female)	No effect		Experimental value
	NOAEL (F1)	Equivalent to OECD 421	24700 mg/m ³ air	8-11 weeks (6h/day, 7 days/week)	Rat (male/female)	No effect		Experimental value

Judgement is based on the relevant ingredients

Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Antigravel Aerosol

No (test)data on the mixture available

n-butyl acetate

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
			Skin	Skin dryness or cracking			Literature study

ethyl acetate

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
			Skin	Skin dryness or cracking			Literature

butanone

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
	Equivalent to OECD 404		Skin	Skin dryness or cracking			Read-across

cyclohexane

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
NOAEC	Other	2000 ppm		neurotoxic effects	6 h	Rat (male)	Experimental value
LOAEC	Other	7000 ppm		neurotoxic effects	6 h	Rat (male)	Experimental value

Chronic effects from short and long-term exposure

Antigravel Aerosol

No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

Antigravel Aerosol

No (test)data on the mixture available

n-butyl acetate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	18 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Lethal
Acute toxicity invertebrates	EC50		44 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	EC50		674.7 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	23 mg/l	21 day(s)	Daphnia magna		Fresh water	Read-across; Reproduction
Toxicity aquatic micro-organisms	IC50		356 mg/l	40 h	Tetrahymena pyriformis	Static system	Fresh water	Experimental value; Nominal concentration

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16 / 25

Antigravel Aerosol

ethyl acetate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	US EPA	230 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value
Acute toxicity invertebrates	EC50		154 mg/l	48 h	Daphnia magna			Literature
Toxicity algae and other aquatic plants	NOEC	OECD 201	> 100 mg/l	72 h	Scenedesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish	NOEC	ECOSAR v1.00	6.3 mg/l	32 day(s)	Pisces		Fresh water	QSAR
	NOEC	OECD 210	< 9.65 mg/l	32 day(s)	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic invertebrates	NOEC	Equivalent to OECD 211	2.4 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro-organisms	EC50		5870 mg/l	15 minutes	Photobacterium phosphoreum	Static system	Salt water	Experimental value; Inhibitory

Naphtha (petroleum), hydrotreated light

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	10 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity invertebrates	EL50	OECD 202	4.5 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	3.1 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOELR	OECD 204	2.6 mg/l	14 day(s)	Pimephales promelas	Semi-static system	Fresh water	Experimental value; GLP
Long-term toxicity aquatic invertebrates	NOELR	OECD 211	2.6 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro-organisms	EC50		15.41 mg/l	40 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth inhibition

butanone

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	2993 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value; GLP
Acute toxicity invertebrates	EC50	OECD 202	308 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	1972 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro-organisms	EC0	DIN 38412-8	1150 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value

cyclohexane

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	4.53 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Measured concentration
Acute toxicity invertebrates	EC50	OECD 202	0.9 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	9.317 mg/l	72 h	Pseudokirchneriella subcapitata			Experimental value; GLP
Toxicity aquatic micro-organisms	IC50		29 mg/l	15 h	Aerobic micro-organisms			Experimental value; Nominal concentration

Solvent naphtha (petroleum), light arom.

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	10 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity invertebrates	EC50	OECD 202	4.5 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	OECD 201	3.1 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOEL	OECD 204	2.6 mg/l	14 day(s)	Pimephales promelas	Semi-static system	Fresh water	Experimental value; GLP
Long-term toxicity aquatic invertebrates	NOEL	OECD 211	2.6 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro-organisms	EC50		15 mg/l - 41 mg/l	40 h	Tetrahymena pyriformis		Fresh water	QSAR; Nominal concentration

Classification is based on the relevant ingredients

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Publication date: 2001-07-21

Date of revision: 2015-05-15

Revision number: 0300

Product number: 33986

17 / 25

Antigravel Aerosol

Conclusion

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:

n-butyl acetate

Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	83 %; Oxygen consumption	28 day(s)	Experimental value

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	3.3 day(s)	0.5E6 /cm ³	Experimental value

Half-life water (t1/2 water)

Method	Value	Primary degradation/mineralisation	Value determination
Other	2 year(s); pH = 7	Primary degradation	Calculated value

ethyl acetate

Biodegradation water

Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	93.9 %	28 day(s)	Experimental value
OECD 301D: Closed Bottle Test	100 %	28 day(s)	Experimental value

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
	40 h	500000 /cm ³	QSAR

Naphtha (petroleum), hydrotreated light

Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	9 %; GLP	28 day(s)	Experimental value

butanone

Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	98 %; GLP	28 day(s)	Experimental value

cyclohexane

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	77 %; GLP	28 day(s)	Experimental value

Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
	28 day(s) - 180 day(s)		Literature study

Solvent naphtha (petroleum), light arom.

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	77.05 %; GLP	28 day(s)	Experimental value

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

Antigravel Aerosol

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

n-butyl acetate

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		14		Pisces	Literature study

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		2.3	25 °C	Experimental value

ethyl acetate

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		30	3 day(s)	Leuciscus idus	Experimental value

Log Kow

Method	Remark	Value	Temperature	Value determination
EPA OPPTS 830.7560		0.68	25 °C	Experimental value

Reason for revision: ATP4

Publication date: 2001-07-21

Date of revision: 2015-05-15

Revision number: 0300

Product number: 33986

18 / 25

Antigravel Aerosol

Naphtha (petroleum), hydrotreated light

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		12.6 - 223.87		Pimephales promelas	Read-across

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		2.4 - 5.7	23 °C	Experimental value

butanone

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		0.3	40 °C	Experimental value

cyclohexane

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	31 - 129	8 week(s)	Cyprinus carpio	Literature study

Log Kow

Method	Remark	Value	Temperature	Value determination
Other		3.44	25 °C	Experimental value

Solvent naphtha (petroleum), light arom.

BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFWIN	10 - 2500			Calculated value

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion

Contains bioaccumulative component(s)

12.4 Mobility in soil:

n-butyl acetate

(log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	1.268 - 1.844	QSAR

Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
28.5 Pa.m ³ /mol		25 °C		Experimental value

ethyl acetate

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	51.3 %	0 %	0.27 %	13.3 %	35.3 %	Calculated value

Naphtha (petroleum), hydrotreated light

(log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v1.66	1.783 - 2.36	Calculated value

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	93.02 %		0.81 %	0.34 %	5.83 %	Calculated value

butanone

(log) Koc

Parameter	Method	Value	Value determination
log Koc		1.53	Calculated value

cyclohexane

(log) Koc

Parameter	Method	Value	Value determination
log Koc	Other	2.89	QSAR

Solvent naphtha (petroleum), light arom.

(log) Koc

Parameter	Method	Value	Value determination
Koc	PCKOCWIN v1.66	60.7 - 229.2	Calculated value
log Koc	PCKOCWIN v1.66	1.783 - 2.36	Calculated value

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	93.02 %		0.81 %	0.34 %	5.83 %	Calculated value

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Date of revision: 2015-05-15

Revision number: 0300

Product number: 33986

19 / 25

Antigravel Aerosol

Conclusion

Contains component(s) with potential for mobility in the soil

12.5 Results of PBT and vPvB assessment:

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

Antigravel Aerosol

Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

n-butyl acetate

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water pollutant

ethyl acetate

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water pollutant

Naphtha (petroleum), hydrotreated light

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water pollutant

butanone

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water pollutant

cyclohexane

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water pollutant

Solvent naphtha (petroleum), light arom.

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water pollutant

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 01 11* (wastes from MFSU and removal of paint and varnish: waste paint and varnish containing organic solvents or other dangerous substances).

Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Specific treatment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Should not be landfilled with household waste. Do not discharge into drains or the

Antigravel Aerosol

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1 UN number:

UN number	1950
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14.2 UN proper shipping name:

Proper shipping name	Aerosols
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14.3 Transport hazard class(es):

Hazard identification number	
Class	2
Classification code	5F

14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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14.6 Special precautions for user:

Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14.1 UN number:

UN number	1950
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14.2 UN proper shipping name:

Proper shipping name	Aerosols
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14.3 Transport hazard class(es):

Hazard identification number	23
Class	2
Classification code	5F

14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
--	-----

14.6 Special precautions for user:

Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1 UN number:

UN number	1950
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14.2 UN proper shipping name:

Proper shipping name	Aerosols
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14.3 Transport hazard class(es):

Class	2
Classification code	5F

14.4 Packing group:

Packing group	
Labels	2.1

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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14.6 Special precautions for user:

Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625

Reason for revision: ATP4

Publication date: 2001-07-21

Date of revision: 2015-05-15

Revision number: 0300

Product number: 33986

21 / 25

Antigravel Aerosol

Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
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Sea (IMDG/IMSBC)

14.1 UN number:	UN number	1950
14.2 UN proper shipping name:	Proper shipping name	Aerosols
14.3 Transport hazard class(es):	Class	2.1
14.4 Packing group:	Packing group	
	Labels	2.1
14.5 Environmental hazards:	Marine pollutant	P
	Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	Special provisions	63
	Special provisions	190
	Special provisions	277
	Special provisions	327
	Special provisions	344
	Special provisions	959
	Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Annex II of MARPOL 73/78	Not applicable

Air (ICAO-TI/IATA-DGR)

14.1 UN number:	UN number	1950
14.2 UN proper shipping name:	Proper shipping name	Aerosols, flammable
14.3 Transport hazard class(es):	Class	2.1
14.4 Packing group:	Packing group	
	Labels	2.1
14.5 Environmental hazards:	Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	Special provisions	A145
	Special provisions	A167
	Special provisions	A802
	Passenger and cargo transport: limited quantities: maximum net quantity per packaging	30 kg G

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
76 %	
626.4 g/l	

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
n-butyl acetate ethyl acetate Naphtha (petroleum), hydrotreated light butanone cyclohexane Solvent naphtha (petroleum), light arom.	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2,	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects,2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and,

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Publication date: 2001-07-21

Date of revision: 2015-05-15

Revision number: 0300

Product number: 33986

22 / 25

Antigravel Aerosol

	2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	— present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: “Keep lamps filled with this liquid out of the reach of children”; and, by 1 December 2010, “Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage”; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: “Just a sip of grill lighter may lead to life threatening lung damage”; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.’
· n-butyl acetate · ethyl acetate · Naphtha (petroleum), hydrotreated light · butanone · cyclohexane · Solvent naphtha (petroleum), light arom.	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration, — artificial snow and frost, — “whoopie” cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: “For professional users only”.3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to in Article 8 (1a) of Council Directive 75/ 324/EEC.4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
· cyclohexane	Cyclohexane	1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of neoprene-based contact adhesives in concentrations equal to or greater than 0,1 % by weight in package sizes greater than 350 g.2. Neoprene-based contact adhesives containing cyclohexane and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact adhesives containing cyclohexane in concentrations equal to or greater than 0,1 % by weight that are placed on the market for supply to the general public after 27 December 2010 are visibly, legibly and indelibly marked as follows: — This product is not to be used under conditions of poor ventilation. — This product is not to be used for carpet laying.”.

National legislation The Netherlands

Antigravel Aerosol

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 06
Waterbezwaarlijkheid	6

National legislation Germany

Antigravel Aerosol

WGK	3; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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n-butyl acetate

Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	1-Butylacetat; 100 ppm
MAK 8-Stunden-Mittelwert mg/m ³	1-Butylacetat; 480 mg/m ³
TA-Luft	5.2.5

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Publication date: 2001-07-21

Date of revision: 2015-05-15

Antigravel Aerosol

ethyl acetate

Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	Ethylacetat; 400 ppm
MAK 8-Stunden-Mittelwert mg/m ³	Ethylacetat; 1500 mg/m ³
TA-Luft	5.2.5

Naphtha (petroleum), hydrotreated light

TA-Luft	5.2.5; I
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butanone

Schwangerschaft Gruppe	C
MAK 8-Stunden-Mittelwert ppm	2-Butanon; 200 ppm
MAK 8-Stunden-Mittelwert mg/m ³	2-Butanon; 600 mg/m ³
TA-Luft	5.2.5

cyclohexane

Schwangerschaft Gruppe	D
MAK 8-Stunden-Mittelwert ppm	Cyclohexan; 200 ppm
MAK 8-Stunden-Mittelwert mg/m ³	Cyclohexan; 700 mg/m ³
TA-Luft	5.2.5; I

National legislation France

Antigravel Aerosol

No data available

National legislation Belgium

Antigravel Aerosol

No data available

Other relevant data

Antigravel Aerosol

No data available

Naphtha (petroleum), hydrotreated light

TLV - Carcinogen	Mineral oil, pure, highly and severely refined; A4
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15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

Full text of any R-phrases referred to under headings 2 and 3:

- R10 Flammable
- R36 Irritating to eyes
- R36/38 Irritating to eyes and skin
- R38 Irritating to skin
- R50 Very toxic to aquatic organisms
- R51 Toxic to aquatic organisms
- R53 May cause long-term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed
- R66 Repeated exposure may cause skin dryness or cracking
- R67 Vapours may cause drowsiness and dizziness

Full text of any H-statements referred to under headings 2 and 3:

- H220 Extremely flammable gas.
 - H222 Extremely flammable aerosol.
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H229 Pressurised container: May burst if heated.
 - H280 Contains gas under pressure; may explode if heated.
 - H304 May be fatal if swallowed and enters airways.
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
 - 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.
- (*) = INTERNAL CLASSIFICATION BY BIG
- PBT-substances = persistent, bioaccumulative and toxic substances
- DSD Dangerous Substance Directive
- DPD Dangerous Preparation Directive

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Revision number: 0300

Product number: 33986

24 / 25

Antigravel Aerosol

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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Product number: 33986

25 / 25