according to Regulation (EC) No. 1907/2006

DOW CORNING

MOLYKOTE(R) P-74 PASTE

 Version
 Revision Date:
 MSDS Number:
 Date of last issue: 21.10.2014

 1.1
 31.03.2015
 655219-00002
 Date of first issue: 21.10.2014

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

1.1 Product identifier

Trade name : MOLYKOTE(R) P-74 PASTE

Product code : 00000000002751933

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

Use of the Sub- : Lubricants and lubricant additives

stance/Mixture

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

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)

Serious eye damage, Category 1 H318: Causes serious eye damage.

Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting

effects.

Classification (67/548/EEC, 1999/45/EC)

Irritant R41: Risk of serious damage to eyes.

Dangerous for the environment R52/53: Harmful to aquatic organisms, may cause

long-term adverse effects in the aquatic environ-

ment.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting

effects.

Precautionary statements : **Prevention:**

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

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P391 Collect spillage.

Hazardous components which must be listed on the label:

Calcium hydroxide

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Inorganic and organic compounds

Mixture

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Dec-1-ene, homopoly- mer, hydrogenated	68037-01-4 500-183-1 01- 2119486452-34	Xn; R65	Asp. Tox. 1; H304	>= 20 - < 30
Calcium hydroxide	1305-62-0 215-137-3	Xi; R41-R37/38	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	>= 10 - < 20



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Paraffin oil	8012-95-1 232-384-2	Xn; R65	Asp. Tox. 1; H304	>= 10 - < 20
(((3,5-Bis(1,1- Dimethylethyl)-4- Hydroxy- phe- nyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Esters	118832-72-7	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1

For explanation of abbreviations see section 16.

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 ad-

vice 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.

Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

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 immediately.

If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur.

Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes serious eye damage.

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



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Alcohol-resistant foam

Dry chemical

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

Carbon oxides Metal oxides

Oxides of phosphorus

Formaldehyde

Nitrogen oxides (NOx)

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 meth-

ods

: Use extinguishing measures that are appropriate to local cir-

cumstances 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 : Use personal protective equipment.

Follow safe handling advice and personal protective equip-

ment recommendations.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so. 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 : Soak up with inert absorbent material.

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 absor-

bent.



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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 deter-

mine 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 : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Do not swallow.

Do not get in eyes.

Avoid prolonged or repeated contact with skin.

Handle in accordance with good industrial hygiene and safety

practice.

Keep container tightly closed.

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. Keep tightly closed.
 Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:

Strong oxidizing agents

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 re-

quire added precautions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits



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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Graphite	7782-42-5	TWA (inhalable dust)	10 mg/m3	GB EH40		
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used					
		TWA (Respirable dust)	4 mg/m3	GB EH40		
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used					
Calcium hydroxide Further information	1305-62-0	TWA	5 mg/m3	91/322/EEC		
	Existing scientific data on health effects appear to be particularly limited, Indicative					
		TWA	5 mg/m3	GB EH40		

Calcium hydroxide

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Further information | Where no specific short-term exposure limit is listed, a figure three times the

long-term exposure should be used

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

Graphite : End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 0.3 mg/m3 End Use: Consumers Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 813 mg/kg bw/day

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 1.2 mg/m3 : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 4 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 1 mg/m3 End Use: Consumers Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 4 mg/m3 End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 1 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 5 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short-term exposure

Value: 5 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 5 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 5 mg/m3

(((3,5-Bis(1,1-Dimethylethyl)-

End Use: Workers

4-

Exposure routes: Inhalation

Hydroxy-

Paraffin oil

Potential health effects: Long-term systemic effects

phenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Esters Value: 1.47 mg/m3

End Use: Workers

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Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 0.42 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 0.36 mg/m3 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 0.21 mg/kg bw/day End Use: Consumers Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 0.21 mg/kg bw/day

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

Calcium hydroxide : Fresh water

Value: 0.49 mg/l Marine water Value: 0.32 mg/l Intermittent use/release Value: 0.49 mg/l Sewage treatment plant

Value: 3 mg/l

Soil

Value: 1080 mg/kg

(((3,5-Bis(1,1-Dimethylethyl)

4-

Fresh water

Value: 0.0056 µg/l

Hydroxy-

phenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Esters

Marine water

Value: 0.00056 µg/l Intermittent use/release Value: 0.0016 mg/l Sewage treatment plant

Value: 1 mg/l Fresh water sediment Value: 2.62 mg/kg Marine sediment Value: 0.262 mg/kg

Soil

Value: 0.1 mg/kg

8.2 Exposure controls

Engineering measures

Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Eye protection : Wear the following personal protective equipment:

Chemical resistant goggles must be worn.

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If splashes are likely to occur, wear:

Face-shield

Hand protection

Material : Impervious 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 re-

sistance data and an assessment of the local exposure poten-

tial.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Respiratory protection : Use respiratory protection unless adequate local exhaust ven-

tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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 : paste

Colour : dark grey

Odour : slight

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Initial boiling point and boiling

range

: Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Not classified as a flammability hazard

Upper explosion limit : No data available

according to Regulation (EC) No. 1907/2006



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Lower explosion limit : No data available

Vapour pressure : Not applicable

Relative vapour density : No data available

Relative density : 1.3

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, dynamic : Not applicable

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 : Use at elevated temperatures may form highly hazardous

compounds.

Can react with strong oxidizing agents.

Hazardous decomposition products will be formed at elevated

temperatures.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

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10.6 Hazardous decomposition products

Thermal decomposition : Formaldehyde

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Skin contact

exposure

Ingestion

Eye contact

Acute toxicity

Not classified based on available information.

Components:

Dec-1-ene, homopolymer, hydrogenated:

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

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 inhala-

tion toxicity

Calcium hydroxide:

Acute oral toxicity LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 425

Assessment: The substance or mixture has no acute oral tox-

icity

Acute dermal toxicity LD50 (Rabbit): > 2,500 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

Paraffin oil:

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

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

(((3,5-Bis(1,1-Dimethylethyl)-4-Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters:

: LD50 (Rat): > 2,000 mg/kg Acute oral toxicity

Method: OECD Test Guideline 401

Assessment: The substance or mixture has no acute oral tox-

icity

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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

Not classified based on available information.

Product:

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

Components:

Dec-1-ene, homopolymer, hydrogenated:

Species: Rabbit

Result: No skin irritation

Calcium hydroxide:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

Paraffin oil: Species: Rabbit

Result: No skin irritation

(((3,5-Bis(1,1-Dimethylethyl)-4-Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Dec-1-ene, homopolymer, hydrogenated:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Calcium hydroxide:

Species: Rabbit

Method: OECD Test Guideline 405 Result: Irreversible effects on the eye

Paraffin oil:

Species: Rabbit

Result: No eye irritation

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(((3,5-Bis(1,1-Dimethylethyl)-4-Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters:

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components:

Dec-1-ene, homopolymer, hydrogenated:

Test Type: Maximisation Test (GPMT)

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

(((3,5-Bis(1,1-Dimethylethyl)-4-Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters:

Test Type: Maximisation Test (GPMT)

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Dec-1-ene, homopolymer, hydrogenated:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Calcium hydroxide:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

(((3,5-Bis(1,1-Dimethylethyl)-4-Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters:

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: Hamster

Application Route: Ingestion Method: OECD Test Guideline 474

Result: negative

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Carcinogenicity

Not classified based on available information.

Components:

Calcium hydroxide:

Species: Rat

Application Route: Ingestion Exposure time: 104 weeks

Result: negative

Remarks: Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

Dec-1-ene, homopolymer, hydrogenated:

Effects on fertility : Test Type: One-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Calcium hydroxide:

Effects on foetal develop-

ment

Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

(((3,5-Bis(1,1-Dimethylethyl)-4-Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters:

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

: Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 414

Result: negative

STOT - single exposure

Not classified based on available information.

Components:

Calcium hydroxide:

Assessment: May cause respiratory irritation.

Remarks: The substance is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Dec-1-ene, homopolymer, hydrogenated:

Species: Rat

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NOAEL: 1,000 mg/kg Application Route: Ingestion Exposure time: 91 d

Paraffin oil:

Species: Rat, female LOAEL: 161 mg/kg

Application Route: Ingestion

Exposure time: 90 d

(((3,5-Bis(1,1-Dimethylethyl)-4-Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters:

Species: Rat NOAEL: 50 mg/kg

Application Route: Ingestion Exposure time: 28 d

Method: OECD Test Guideline 407

Aspiration toxicity

Not classified based on available information.

Components:

Dec-1-ene, homopolymer, hydrogenated:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Paraffin oil:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Dec-1-ene, homopolymer, hydrogenated:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

aquatic invertebrates

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 202

: EL50 (Scenedesmus capricornutum (fresh water algae)): > Toxicity to algae

1,000 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

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NOELR (Scenedesmus capricornutum (fresh water algae)):

1,000 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

Toxicity to bacteria : NOEC : 2 mg/l

Exposure time: 28 d

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

: NOELR: 125 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 211

Calcium hydroxide:

Toxicity to fish : LC50 (Gasterosteus aculeatus (threespine stickleback)): 457

mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 49.1 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC10 (Pseudokirchneriella subcapitata (green algae)): 79.22

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): 184.57

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to bacteria : EC50 : 300.4 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

: NOEC: 32 mg/l

Exposure time: 14 d

Paraffin oil:

Toxicity to fish : LL50 (Scophthalmus maximus (turbot)): > 1,028 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Acartia tonsa): > 3,193 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials

Toxicity to algae : EL50 (Skeletonema costatum (marine diatom)): > 3,200 mg/l

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Exposure time: 72 h

Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials

NOELR (Skeletonema costatum (marine diatom)): 993 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials

(((3,5-Bis(1,1-Dimethylethyl)-4-Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 74 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 1.3 mg/l

Exposure time: 24 h

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): < 0.16

mg/l

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

Toxicity to daphnia and other : NO aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.00028 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

100

12.2 Persistence and degradability

Components:

Dec-1-ene, homopolymer, hydrogenated:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 2 % Exposure time: 28 d

Paraffin oil:

Biodegradability : Result: Readily biodegradable

Biodegradation: 82 % Exposure time: 24 d

Method: OECD Test Guideline 301F

Remarks: Based on data from similar materials

(((3,5-Bis(1,1-Dimethylethyl)-4-Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

according to Regulation (EC) No. 1907/2006

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Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

Dec-1-ene, homopolymer, hydrogenated:Partition coefficient: n- : log Pow: > 6.5

octanol/water

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 : Dispose of as unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

ADN : UN 3077
ADR : UN 3077
RID : UN 3077
IMDG : UN 3077
IATA : UN 3077

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

((((3,5-Bis(1,1-Dimethylethyl)-4-

Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters)

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ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

((((3,5-Bis(1,1-Dimethylethyl)-4-

Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

((((3,5-Bis(1,1-Dimethylethyl)-4-

Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, **IMDG**

N.O.S.

((((3,5-Bis(1,1-Dimethylethyl)-4-

Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters)

Environmentally hazardous substance, solid, n.o.s. IATA

((((3,5-Bis(1,1-Dimethylethyl)-4-

Hydroxyphenyl)Methyl)Thio)Acetic Acid C10-14-Isoalkyl Es-

ters)

14.3 Transport hazard class(es)

ADN 9

ADR 9

RID 9

IMDG 9

IATA 9

14.4 Packing group

ADN

Packing group Ш Classification Code M7 Hazard Identification Number 90 9

Labels

ADR Packing group Ш Classification Code M7 90

Hazard Identification Number Labels : 9 Tunnel restriction code : (E)

RID

Packing group : 111 Classification Code : M7 Hazard Identification Number 90 Labels 9

IMDG

: 111 Packing group : 9 Labels



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EmS Code : F-A, S-F

IATA

Packing instruction (cargo : 956

aircraft)

Packing instruction (passen- : 956

ger aircraft)

Packing instruction (LQ) : Y956
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

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 Parlia-

ment and the Council concerning the export and import

of dangerous chemicals

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

: Not applicable

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Not applicable

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

Quantity 1

Quantity 2

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E1 ENVIRONMENTAL 100 t 200 t

HAZARDS

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

KECI : All ingredients listed, exempt or notified.

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

Substances.

AICS : All ingredients listed or exempt.

IECSC : All ingredients listed or exempt.

PICCS : All ingredients listed or exempt.

DSL : All chemical substances in this product comply with the CEPA

1999 and NSNR and are on or exempt from listing on the Ca-

nadian Domestic Substances List (DSL).

ENCS/ISHL : Some components are not listed or not identified on

ENCS/ISHL.

NZIoC : All ingredients listed or exempt.

Inventories

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

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of R-Phrases

R37/38 : Irritating to respiratory system and skin.

R41 : Risk of serious damage to eyes.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

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R65 : Harmful: may cause lung damage if swallowed.

Full text of H-Statements

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H318 : Causes serious eye damage. H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity
Asp. Tox. : Aspiration hazard
Eye Dam. : Serious eye damage

Skin Irrit. : Skin irritation

STOT SE : Specific target organ toxicity - single exposure

91/322/EEC : Europe. Commission Directive 91/322/EEC on establishing

indicative limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

91/322/EEC / TWA : Limit Value - eight hours

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

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 Agen-

cy, 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