according to Regulation (EC) No. 1907/2006 (REACH)



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

1.1 Product identifier

Endgrain Sealer (25-0350)

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

Coating for decorative markets. Paint/paint-related material for industrial/professional use.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Address: Mighton Products Ltd

Hinxton, Cambridgeshire

CB10 1RG

Tel: +44 (0) 1223 497097 United Kingdom Fax: +44 (0) 1223 839896

Email: sales@mighton.co.uk

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

This mixture is classified as not hazardous according to 1999/45/EC.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

None

2.2 Label elements

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

Special rules for supplemental label elements for certain mixtures

EUH208 Contains NEODECANOIC ACID, COBALT SALT; 2-BUTANONE OXIME. May produce an allergic

reaction.

EUH210 Safety data sheet available on request.

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

TITANIUM DIOXIDE; REACH registration No.: 01-2119489379-17 ; EC No.: 236-675-5; CAS No.: 13463-67-7

Weight fraction: 2,5 - 10 % Classification 1272/2008 [CLP]: None

NEODECANOIC ACID, COBALT SALT; REACH registration No.: 01-2119970733-31; EC No.: 248-373-0; CAS No.: 27253-31-

2

Weight fraction: 0,1 - 1 %

Classification 1272/2008 [CLP]: Repr. 2;H361f Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic

Chronic 2; H411

2-BUTANONE OXIME; REACH registration No.: 01-2119539477-28; EC No.: 202-496-6; CAS No.: 96-29-7

Weight fraction: 0,1 - 1 %

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Classification 1272/2008 [CLP]: Carc. 2; H351 Eye Dam. 1; H318 Acute Tox. 4; H312 Skin Sens. 1; H317

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact

Remove contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or diluting agents for skin cleaning.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, keep eyelids open.

After ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam; Carbon dioxide (CO2); Extinguishing powder; Water mist;

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool endangered containers with water in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

Do not inhale the vapour.

6.2 Environmental precautions

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Do not allow to enter ground-water, surface water or drains, even not in small quantities. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

^{6.3} Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers). Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferabily with a detergent; avoid use of solvents.

6.4 Reference to other sections

None

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol. When using do not eat, drink, smoke, sniff. Never use pressure to empty container. Keep/Store only in original container. See chapter 8 of the safety data sheet (Personal protection equipment) Comply with the health and safety at work laws. Do not allow to enter groundwater, surface water or drains, even not in small quantities.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Further information on storage conditions

Use only in well-ventilated areas. Store between +5 and +35 °C in a dry, well ventilated place away from sources of heat and direct sunlight. When using do not smoke. Only allow access to authorised staff. Preventleaks and prevent soil / water pollution caused by leaks.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL/DMEL and PNEC values

DNEL/DM EL

Limit value type : DNEL Consumer (systemic) (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)

Exposure route : Ora

Exposure frequency: Long-term (repeated)

Limit value: 700 mg/kg

Safety factor:

Limit value type : DNEL worker (local) (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)

Exposure route: Inhalation

Exposure frequency: Long-term (repeated)

Limit value: 10 mg/m³

Safety factor: 3

Limit value type : DNEL Consumer (local) (NEODECANOIC ACID, COBALT SALT ; CAS No. : 27253-31-2)

Exposure route: Inhalation

Exposure frequency: Long-term (repeated)

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Limit value: 43 µg/m³

Limit value type: DNEL Consumer (systemic) (NEO DECANOIC ACID, COBALT SALT; CAS No.: 27253-31-

2)

Exposure route : Oral

Exposure frequency: Long-term (repeated)

Limit value : $64,9 \mu g/I$ Safety factor : 50

Limit value type: DNEL worker (local) (NEO DECANOIC A CID, COBALT SALT; CAS No.: 27253-31-2)

Exposure route: Inhalation

Exposure frequency: Long-term (repeated)

Limit value: $273.2 \mu g/m^3$

Limit value type: DNEL Consumer (local) (2-BUTANONE OXIME; CAS No.: 96-29-7)

Exposure route: Inhalation

Exposure frequency: Long-term (repeated)

Limit value: 2 mg/m³ Safety factor: 5

Limit value type: DNEL Consumer (systemic) (2-BUTANONE OXIME; CAS No.: 96-29-7)

Exposure route: Inhalation

Exposure frequency: Long-term (repeated)

Limit value: 2,7 mg/m³

Safety factor:

Limit value type: DNEL Consumer (systemic) (2-BUTANONE OXIME; CAS No.: 96-29-7)

Exposure route : Dermal

Exposure frequency: Long-term (repeated)

Limit value: 0,78 mg/kg

Safety factor: 5

Limit value type: DNEL Consumer (systemic) (2-BUTANONE OXIME; CAS No.: 96-29-7)

Exposure route : Derma

Exposure frequency: Short-term (acute)
Limit value: 1,5 mg/kg

Safety factor: 12

Limit value type: DNEL worker (local) (2-BUTANONE OXIME; CASNo.: 96-29-7)

Exposure route : Inhalation

Exposure frequency: Long-term (repeated)

Limit value: 3,33 mg/m³

Safety factor: 3

Limit value type: DNEL worker (systemic) (2-BUTANONE OXIME; CAS No.: 96-29-7)

Exposure route: Inhalation

Exposure frequency: Long-term (repeated)

Limit value: 9 mg/m³

Safety factor: 3

Limit value type : DNEL worker (systemic) (2-BUTANONE OXIME ; CAS No. : 96-29-7)

Exposure route : Dermal

Exposure frequency: Long-term (repeated)

Limit value: 1,3 mg/kg

Safety factor :

Limit value type : DNEL worker (systemic) (2-BUTANONE OXIME ; CAS No. : 96-29-7)

Exposure route : Dermal

Exposure frequency: Short-term (acute)
Limit value: 2,5 mg/kg
Safety factor: 72

PNEC

Limit value type: PNEC aquatic, freshwater (TITANIUM DIOXIDE ; CASNo.: 13463-67-7)

Limit value: 0,127 mg/l

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Safety factor: 100

Limit value type : PNEC aquatic, intermittent release (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)

Limit value: 0,61 mg/l Safety factor: 100

Limit value type: PNEC aquatic, marine water (TITANIUM DIOXIDE; CAS No.: 13463-67-7)

Limit value: 1 mg/l

Limit value type: PNEC sediment, freshwater (TITANIUM DIOXIDE; CAS No.: 13463-67-7)

Limit value: 1000 mg/kg

Safety factor: 100

Limit value type: PNEC sediment, marine water (TITANIUM DIOXIDE; CAS No.: 13463-67-7)

Limit value: 100 mg/kg Safety factor: 1000

Limit value type: PNEC soil, freshwater (TITANIUM DIOXIDE; CAS No.: 13463-67-7)

Limit value: 100 mg/kg

Safety factor: 10

Limit value type: PNEC sewage treatment plant (STP) (TITANIUM DIOXIDE; CAS No.: 13463-67-7)

Limit value: 100 mg/l Safety factor: 10

Limit value type : PNEC aquatic, freshwater (NEO DECANO IC ACID, COBALT SALT ; CAS No. : 27253-31-2

)

Exposure route: Water (Including sewage plant)

Limit value : $0,6 \mu g/I$ Safety factor : 3

Limit value type: PNEC aquatic, marine water (NEODECANOIC ACID, COBALT SALT; CAS No. : 27253-

31-2)

Exposure route: Water (Including sewage plant)

Limit value : 2,36 μ g/l Safety factor : 3

Limit value type: PNEC sediment, freshwater (NEODECANOIC ACID, COBALT SALT; CAS No.: 27253-31-

2)

Exposure route: Water (Including sewage plant)

Limit value: 9,5 mg/kg

Safety factor: 3

Limit value type: PNEC sediment, marine water (NEO DECANOIC ACID, COBALT SALT; CAS No.: 27253-

31-2)

Exposure route: Water (Including sewage plant)

Limit value: 9,5 mg/kg

Safety factor: 3

Limit value type: PNEC soil, freshwater (NEODECANOIC ACID, COBALT SALT; CAS No.: 27253-31-2)

Limit value: 10,9 mg/kg

Safety factor: 2

Limit value type : PNEC sewage treatment plant (STP) (NEODECANOIC ACID, COBALT SALT ; CAS No. :

27253-31-2)

Exposure route: Water (Including sewage plant)

Limit value: 0,37 mg/l Safety factor: 10

Limit value type : PNEC aquatic, freshwater (2-BUTANONE OXIME ; CAS No. : 96-29-7)

Limit value: 0,256 mg/l

Safety factor: 10

Limit value type: PNEC aquatic, intermittent release (2-BUTANONE OXIME ; CASNo.: 96-29-7)

Limit value: 0,118 mg/l

Safety factor: 100

Limit value type : PNEC sewage treatment plant (STP) (2-BUTANONE OXIME ; CAS No. : 96-29-7)

Limit value: 177 mg/l Safety factor: 1

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8.2 Exposure controls

Appropriate engineering controls

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

Personal protection equipment

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Eye/face protection

Suitable eye protection.

Use tightly fitting safety glasses.

Skin protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Wear suitable gloves tested to EN374. Use skin cleaning and skin care products after using the gloves. Breakthrough time (maximum wearing time) Check protective gloves before each use concerning their normal condition.

Suitable gloves type: Disposable gloves.

Suitable material: NR (natural rubber, natural latex)

Required properties: liquid-tight.

Breakthrough time (maximum wearing time): > 60 min

Thickness of the glove material: > 0,5 mm Recommended glove articles: DIN EN 374

Body protection

Suitable protective clothing: Overall

Recommended material: Natural fibres (e.g. cotton)

Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations)

Do not allow to enter ground-water, surface water or drains, even not in small quantities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Physical state :liquidFlash point :not relevantColour :standard coloursSolid content :ca.50Wt %

Density: (20 °C) 1,2 - 1,3 g/cm³

Viscosity: (20 °C) 20 - 30 dPa.s Rotothinner

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

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Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4 Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO2); Nitrogen

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter: LD50 (TITANIUM DIOXIDE; CAS No.: 13463-67-7)

Exposure route : Oral
Species : Mouse
Effective dose : > 5000 mg/kg

Parameter: LD50 (NEODECANOIC ACID, COBALT SALT; CAS No.: 27253-31-2)

Exposure route: Oral Species: Rat

Effective dose : 1098 mg/kg

Parameter: LD50 (2-BUTANONEOXIME; CAS No.: 96-29-7)

Exposure route : Oral Species : Rat

Effective dose : 2326 mg/kg Method : 0ECD 401

Acute dermal toxicity

Parameter: LD50 (NEODECANOIC ACID, COBALT SALT; CAS No.: 27253-31-2)

Exposure route : Dermal Species : Rat

Effective dose: > 2000 mg/kg

Parameter: LD50 (2-BUTANONEOXIME; CAS No.: 96-29-7)

 Exposure route :
 Dermal

 Species :
 Rabbit

 Effective dose :
 > 1000 mg/kg

 Exposure time :
 24 h

 Method :
 OECD 402

Acute inhalation toxicity

Parameter: LC50 (TITANIUM DIOXIDE; CASNo.: 13463-67-7)

Exposure route: Inhalation
Species: Rat
Effective dose: > 6,82 mg/l
Exposure time: 4 h

Parameter: LD50 (2-BUTANONEOXIME; CAS No.: 96-29-7)

 Exposure route :
 Inhalation

 Species :
 Rat

 Effective dose :
 > 4,83 mg/l

 Exposure time :
 4 h

 Method :
 OECD 403

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SECTION 12: Ecological information

Use appropriate container to avoid environmental contamination. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter: EC50 (TITANIUM DIOXIDE; CAS No.: 13463-67-7)

Species: Brachydanio rerio (zebra-fish)
Evaluation parameter: Acute (short-term) fish toxicity

Effective dose : > 100 mg/l Exposure time : 96 h

Parameter: EC50 (TITANIUM DIOXIDE; CAS No.: 13463-67-7)

Species: Carassius auratus (goldfish)
Evaluation parameter: Acute (short-term) fish toxicity

Effective dose : > 1000 mg/l Exposure time : 24 h

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

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14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

EU limit value for this product (cat. A/d): 130 g/l VOC.

Other regulations (EU)

Information according to 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

VOC-value: ca. 15 g/l

National regulations

GEEN / ZEER WEINIG OPLOSMIDDEL. VOLDOET VOOR PROFESSIONEEL GEBRUIK BINNEN AAN ARBO.

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients

16.2 Abbreviations and acronyms

a.i. = Active ingredient

ACGIH = American Conference of Governmental Industrial Hygienists (US)

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

AFFF = Aqueous Film Forming Foam

AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)

AOAC = AOAC International (formerly Association of Official Analytical Chemists)

aq. = Aqueous

ASTM = American Society of Testing and Materials (US)

atm = Atmosphere(s)

B.V. = Beperkt Vennootschap (Limited)

BCF = Bioconcentration Factor

bp = Boiling point at stated pressure

bw = Body weight

ca = (Circa) about

CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)

CEFIC = European Chemical Industry Council (established 1972)

CIPAC = Collaborative International Pesticides Analytical Council

 ${\sf CLP} = {\sf REGULATION}$ (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Conc = Concentration

cP = CentiPoise

cSt = Centistokes

d = Day(s)

DIN = Deutsches Institut für Normung e.V.

DNEL = Derived No-Effect Level

DT50 = Time for 50% loss; half-life

EbC50 = Median effective concentration (biomass, e.g. of algae)

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EC = European Community; European Commission

EC50 = Median effective concentration

EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)

ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)

ErC50 = Median effective concentration (growth rate, e.g. of algae)

EU = European Union

EWC = European Waste Catalogue

FAO = Food and Agriculture Organization (United Nations)

GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)

h = Hour(s)

hPa = HectoPascal (unit of pressure)

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IC50 = Concentration that produces 50% inhibition

IMDG Code = International Maritime Dangerous Goods Code

IMO = International Maritime Organization

ISO = International Organization for Standardization

IUCLID = International Uniform Chemical Information Database

IUPAC = International Union of Pure and Applied Chemistry

kg = Kilogram

Kow = Distribution coefficient between n-octanol and water

kPa = KiloPascal (unit of pressure)

LC50 = Concentration required to kill 50% of test organisms

LD50 = Dose required to kill 50% of test organisms

LEL = Lower Explosive Limit/Lower Explosion Limit

LOAEL = Lowest observed adverse effect level

mg = Milligram

min = Minute(s)

ml = Milliliter

mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)

mp = Melting point

MRL = Maximum Residue Limit

MSDS = Material Safety Data Sheet

n.o.s. = Not Otherwise Specified

NIOSH = National Institute for Occupational Safety and Health (US)

NOAEL = No Observed Adverse Effect Level

NOEC = No observed effect concentration

NOEL = No Observable Effect Level

NOx = Oxides of Nitrogen

OECD = Organization for Economic Cooperation and Development

OEL = Occupational Exposure Limits

Pa = Pascal (unit of pressure)

PBT = Persistent, Bioaccumulative or Toxic

pH = -log10 hydrogen ion concentration

pKa = -log10 acid dissociation constant

PNEC = Previsible Non Effect Concentration

POPs = Persistent Organic Pollutants

ppb = Parts per billion

PPE = Personal Protection Equipment

ppm = Parts per million

ppt = Parts per trillion

PVC = Polyvinyl Chloride

QSAR = Quantitative Structure-Activity Relationship

REACH = Registration, Evaluation and Authorization of CHemicals (EU, see NCP)

SI = International System of Units

STEL = Short-Term Exposure Limit

tech. = Technical grade

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TSCA = Toxic Substances Control Act (US)
TWA = Time-Weighted Average
vPvB = Very Persistent and Very Bioacccumulative
WHO = World Health Organization = OMS
y = Year(s)

16.3 Key literature references and sources for data

None

16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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