SAFETY DATA SHEET
BOSS GAS PAINT BS4800 08C35

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

1.1. Product identifier

Product name BOSS GAS PAINT BS4800 08C35

Product number 6768052/6768126

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

Identified uses Paint.

1.3. Details of the supplier of the safety data sheet

Supplier

BSS Industrial
Boss court,
7 Barton Close,
Grove Park,
Leicester,
LE19 1SJ
+44 (0) 116 242 7800
enquiries@bssgroup.com

1.4. Emergency telephone number

Emergency telephone +44 (0)116 245 5500(8:30-5pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

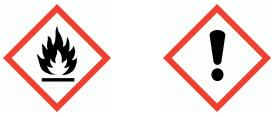
Health hazards STOT SE 3 - H336

Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xn;R65. R10,R52/53.

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapour/ spray. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P312 Call a POISON CENTRE/doctor if you feel unwell. P501 Dispose of contents/ container in accordance with national regulations.
Contains	LOW AROMATIC WHITE SPIRIT, Hydrocarbons, C9, aromatics
Supplementary precautionary statements	P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

LOW AROMATIC WHITE SPIRIT **30-60%**

CAS number: — EC number: 919-857-5

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226 STOT SE 3 - H336 Asp. Tox. 1 - H304	Xn;R65. R10,R64,R66.

Hydrocarbons, C9, aromatics **1-5%**

CAS number: — EC number: 918-668-5

Classification
Flam. Liq. 3 - H226 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

CALCIUM CARBONATE **<1%**

CAS number: 1317-65-3

Classification	Classification (67/548/EEC or 1999/45/EC)
Not Classified	-

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METHOXY PROPOXY PROPANOL **<1%**

CAS number: 34590-94-8 EC number: 252-104-2

Classification
Not Classified

Classification (67/548/EEC or 1999/45/EC)
-

Strontium Bis(2-ethylhexanoate **<1%**

CAS number: 2457-02-5

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Repr. 2 - H361

PHTHALIC ANHYDRIDE **<1%**

CAS number: 85-44-9 EC number: 201-607-5

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Resp. Sens. 1 - H334
Skin Sens. 1 - H317
STOT SE 3 - H335

Classification (67/548/EEC or 1999/45/EC)
Xn;R22 R42/43 Xi;R37/38,R41

C18-unsatd., dimers, compds. with coco alkylamines **<1%**

CAS number: 68647-95-0 REACH registration number: 01-2120099181-55-0000

M factor (Acute) = 1 M factor (Chronic) = 1

Classification
Skin Irrit. 2 - H315
Skin Sens. 1B - H317
STOT RE 2 - H373
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

NEODECANOATE ACID, COBALT SALT **<1%**

CAS number: 27253-31-2 EC number: 248-373-0

Classification
Acute Tox. 4 - H302
Skin Sens. 1 - H317
Repr. 2 - H361f
Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC)
Xn;R22. Repr. Cat. 3;R62. N;R51/53. R43.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

Inhalation Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

Ingestion Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Skin contact Rinse with water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Prolonged inhalation of high concentrations may damage respiratory system. During application and drying, solvent vapours will be emitted. Vapours in high concentrations are narcotic.

Ingestion Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

Skin contact Prolonged contact may cause redness, irritation and dry skin. Discoloration of the skin.

Eye contact May cause temporary eye irritation.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Flammable liquid and vapour. Solvent vapours may form explosive mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up.

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Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective equipment as described in Section 8 of this data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed and in a well-ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

Storage class Flammable liquid storage. The storage and use of this product is subject to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR. Up to 50 litres of liquids with a flash point below 32C may be kept in a workroom provided they are kept in closed containers in a marked, fire-resisting cupboard or bin. Larger quantities must be kept in a separate, marked storeroom conforming to the structural requirements contained in the HSE guidance note Storage of Flammable Liquids in Containers.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

LOW AROMATIC WHITE SPIRIT

Long-term exposure limit (8-hour TWA): WEL 1000 mg/m³

CALCIUM CARBONATE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust
Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust
Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust
Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust
Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust
Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

METHOXY PROPOXY PROPANOL

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³
Sk

PHTHALIC ANHYDRIDE

Long-term exposure limit (8-hour TWA): WEL 4 mg/m3(Sen)
Short-term exposure limit (15-minute): WEL 12 mg/m3(Sen)

WEL = Workplace Exposure Limit.
Sk = Can be absorbed through the skin.

Ingredient comments WEL = Workplace Exposure Limits

LOW AROMATIC WHITE SPIRIT

DNEL

Consumer - Oral; Long term systemic effects: 300 mg/kg/day
Consumer - Dermal; Long term systemic effects: 300 mg/kg/day
Industry - Dermal; Long term systemic effects: 1500 mg/kg/day
Industry - Inhalation; Long term systemic effects: 1500 mg/m³
Consumer - Inhalation; Long term systemic effects: 900 mg/m³

Hydrocarbons, C9, aromatics

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DNEL

Consumer - Oral; Long term systemic effects: 11 mg/kg/day
Consumer - Dermal; Long term systemic effects: 11 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 32 mg/m³
Industry/Professional - Dermal; Long term systemic effects: 25 mg/kg/day
Industry/Professional - Inhalation; Long term systemic effects: 100 mg/m³

C18-unsatd., dimers, compds. with coco alkylamines (CAS: 68647-95-0)

PNEC

Fresh water; 393 ng/lt.
Intermittent release; 3.93 ug/lt.
marine water; 39.3 ng/lt.
STP; 80 mg/l
Sediment (Freshwater); 39.5 ug/lt.
Sediment (Marinewater); 3.95 ug/lt.

Strontium Bis(2-ethylhexanoate (CAS: 2457-02-5)

DNEL

Workers - Inhalation; Long term systemic effects: 730 ug/m3
General population - Inhalation; Long term systemic effects: 180 ug/m3
Workers - Dermal; Long term systemic effects: 410 ug/kg/bw/day
General population - Dermal; Long term systemic effects: 210 ug/kg/bw/day
General population - Oral; Long term systemic effects: 210 ug/kg/bw/day

PNEC

Fresh water; 360-440 ug/lt.
Intermittent release; 493-610 ug/lt.
marine water; 36-40 ug/lt.
STP; 71.7-88.8 mg/l
Sediment (Freshwater); 6.37-7.86 mg/kg
Sediment (Marinewater); 637-790 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374. Wear protective gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.31 mm For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes(Permeation according to EN 374 Part 3: Level 6). Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition.

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Other skin and body protection	Wear apron or protective clothing in case of contact.
Hygiene measures	Provide eyewash station. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes wet or contaminated. Do not smoke in work area. Use appropriate hand lotion to prevent defatting and cracking of skin. When using do not eat, drink or smoke.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a respirator fitted with the following cartridge: Gas filter, type A2.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured liquid.
Colour	Various colours.
Odour	ALIPHATIC HYDROCARBON
Odour threshold	Not determined.
pH	Technically not feasible.
Initial boiling point and range	132°C @ 760 mm Hg
Flash point	>32°C Setaflash closed cup.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: .9
Vapour pressure	3.5 mm Hg @ °C
Vapour density	>1.0
Relative density	1.15 @ 20°C
Solubility(ies)	Immiscible with water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	3.6 P @ 20°C
Explosive properties	Not determined.

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Explosive under the influence of a flame Not considered to be explosive.

Oxidising properties Not determined.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 450-505 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See the other subsections of this section for further details.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react strongly with the product: Oxidising agents.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Acids - organic.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects There is no data available on the mixture itself. The mixture has been assessed following the EC 1272/2008 regulation and classified for toxicological hazards accordingly. See sections 2 and 3 for details.

Carcinogenicity

IARC carcinogenicity None of the ingredients are listed or exempt.

Inhalation Prolonged inhalation of high concentrations may damage respiratory system. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

Ingestion Symptoms following overexposure may include the following: Nausea, vomiting. Diarrhoea.

Skin contact The product contains organic solvents. May be absorbed through the skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

Eye contact May cause temporary eye irritation.

Acute and chronic health hazards Swallowing concentrated chemical may cause severe internal injury.

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Medical symptoms Upper respiratory irritation. Nausea, vomiting. Allergic rash.

Medical considerations Skin disorders and allergies. Avoid vomiting and normal rinse of stomach because of risk of aspiration.

Toxicological information on ingredients.

LOW AROMATIC WHITE SPIRIT

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,001.0
Species	Rat
ATE oral (mg/kg)	5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	3,001.0
Species	Rabbit
ATE dermal (mg/kg)	3,000.01

Hydrocarbons, C9, aromatics

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	3,592.0
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	3,161.0
Species	Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	6,194.0
Species	Rat

Serious eye damage/irritation

Serious eye damage/irritation	Slightly irritating.

Respiratory sensitisation

Respiratory sensitisation	Not sensitising.

Carcinogenicity

Carcinogenicity	No evidence

Specific target organ toxicity - single exposure

Target organs	Central nervous system Respiratory system, lungs

Aspiration hazard

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Aspiration hazard Kinematic viscosity> 20.5mm sq/s. The product viscosity is greater than the upper limit assigned for classification. Although not classified, the product contains mineral oil. If aspirated into the lings e.g. through vomiting after ingestion, admit to hospital immediately.

METHOXY PROPOXY PROPANOL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 5,100.0

Species Rat

Strontium Bis(2-ethylhexanoate

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 1,030.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg) 2,000.0

Species Rat

PHTHALIC ANHYDRIDE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 500.0

Species Rat

C18-unsatd., dimers, compds. with coco alkylamines

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 2,000.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg) 5,000.0

Species Rat

NEODECANOATE ACID, COBALT SALT

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 500.0

SECTION 12: Ecological information

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Ecotoxicity There are no data on the ecotoxicity of this product. The mixture has been assessed following the EC 1272/2008 regulation and classified for toxicological hazards accordingly.

12.1. Toxicity

Ecological information on ingredients.

LOW AROMATIC WHITE SPIRIT

Acute aquatic toxicity

Acute toxicity - fish	LL_{50}, 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL0, 48 hours: 1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOELR, : 100 mg/l, Pseudokirchneriella subcapitata

Hydrocarbons, C9, aromatics

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 9.2 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 3.2 mg/l, Daphnia magna

METHOXY PROPOXY PROPANOL

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: >10000 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	LC_{50}, 48 hours: 1919 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 969 mg/l, Pseudokirchneriella subcapitata

Strontium Bis(2-ethylhexanoate

Acute aquatic toxicity

Acute toxicity - fish	EC_{50}, 4 days: 56.34-100 mg/l, Fish NOEC, 4 days: 56.34 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 56.3-91.0 mg/l, Daphnia magna LC_{50}, 48 hours: 125 mg/l, Daphnia magna EC_{0}, 48 hours: 62.5 mg/l, Daphnia magna EC_{100}, 48 hours: 125 mg/l, Daphnia magna NOEC, 48 hours: 35.2 mg/l, Daphnia magna NOEC, 21 days: 21-25 mg/l, Daphnia magna LOEC, 21 days: 63 mg/l, Daphnia magna EL50, 21 days: 60-75 mg/l, Daphnia magna LC_{50}, 21 days: 86 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 27.8-49.3 mg/l, Algae NOEC, 72 hours: 18.8 mg/l, Algae

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Acute toxicity - microorganisms	EC_{50}, 17 hours: 112.1 mg/l, Activated sludge EC_{50}, 3 hours: 167.8 mg/l, Activated sludge EC10, 17 hours: 71.7 mg/l, Activated sludge EC10, 3 hours: 163.8 mg/l, Activated sludge

C18-unsatd., dimers, compds. with coco alkylamines

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 4 days: 160-55000 ug/lt, Fish IC_{o}, 4 days: 30 ug/lt, Fish LC_{100}, 4 days: 100 ug/lt, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 34.5 mg/l, Freshwater invertebrates LC_{50}, 48 hours: 90 ug/lt, Freshwater invertebrates EC10, 48 hours: 29.2 ug/lt, Freshwater invertebrates
Acute toxicity - aquatic plants	EC_{50}, 72 days: 153 ug/lt, Algae EC_{50}, 72 days: 160-393 ug/lt, Algae NOEC, 72 hours: 60 ug/lt, Algae EC10, 72 days: 59 ug/lt, Algae EC10, 72 days: 91 ug/lt, Algae
Acute toxicity - microorganisms	EC10, 30 minutes: 1.8 g/l, Activated sludge EC_{o}, 30 minutes: 1.0 g/l, Activated sludge

Chronic aquatic toxicity

M factor (Chronic)	1

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

Hydrocarbons, C9, aromatics

Biodegradation	The substance is readily biodegradable. Degradation (%)

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

Hydrocarbons, C9, aromatics

Bioaccumulative potential	No data available on bioaccumulation.

METHOXY PROPOXY PROPANOL

Partition coefficient	log Kow: 0.0043

12.4. Mobility in soil

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Mobility Volatile liquid The product contains organic solvents which will evaporate easily from all surfaces.

Ecological information on ingredients.

Hydrocarbons, C9, aromatics

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

Hydrocarbons, C9, aromatics

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

Hydrocarbons, C9, aromatics

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

Waste class When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous waste, with code 08 01 11* (SOLVENT BASED WASTE). Part used containers, not drained and/or rigorously scraped out and containing dried residues of the supplied coating, are categorised as hazardous waste, with code 08 01 11* (SOLVENT BASED LIQUID WASTE). If mixed with other wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging).

SECTION 14: Transport information

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General For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

UN No. (ADR/RID) 1263

UN No. (IMDG) 1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID) PAINT

Proper shipping name (IMDG) PAINT

Proper shipping name (ICAO) PAINT

Proper shipping name (ADN) PAINT

14.3. Transport hazard class(es)

ADR/RID class 3

IMDG class 3

Transport labels

14.4. Packing group

ADR/RID packing group III

IMDG packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS F-E, S-E

Tunnel restriction code (D/E)

LQ Volume(max)

LQ Restrictions

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

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EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
CAS: Chemical Abstracts Service.
ATE: Acute Toxicity Estimate.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
EC_{50}: 50% of maximal Effective Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Asp. Tox. = Aspiration hazard
Flam. Liq. = Flammable liquid
STOT RE = Specific target organ toxicity-repeated exposure
STOT SE = Specific target organ toxicity-single exposure

Training advice

Read and follow manufacturer's recommendations.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued by

Technical manager

Revision date

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Revision

9

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Risk phrases in full

R10 Flammable.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, 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.

Hazard statements in full

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.