



HEALTH AND SAFETY DATA

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier: Zeroflame Fire Retardant Paint

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

At present there is no complete information available on identified uses. When the data becomes available, it will be integrated into the safety data sheet.

Product use: Fire protection.

Details of the supplier of the safety data sheet:

Company: Decor Ireland, 9 Rathdown Close, Lissue Industrial Estate West, LISBURN, BT28 2RB

Telephone: +44 (0)28 9262 0300

Email: info@decorireland.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Type of product: Mixture

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

**Dangerous for the
environment R52/53:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Labelling according to EC Directives (1999/45/EC)

R-phrases(s): R52/53. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards: This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances: Not applicable.

Mixtures:

Hazardous components

Chemical Name CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
2-butoxyethanol 111-76-2 203-905-0 01-2119475108-36-XXXX	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	$\geq 1 - < 2,5$
Nonylphenol ethoxylate phosphate 51609-41-7	C; R34 N; R51/53	Skin Corr. 1B; H314 Aquatic Chronic 2; H411	$< 0,25$
3-(3,4-dichlorophenyl)-1,1- dimethylurea 330-54-1 206-354-4	Carc.Cat.3; R40 Xn; R22- R48/22 N; R50-R53	Carc. 2; H351 Acute Tox. 4; H302 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,025 - < 0,25$

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice: No hazards which require special first aid measures.

If inhaled: If symptoms persist, call a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

In case of eye contact: Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

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Symptoms: See Section 11 for more detailed information on health effects and symptoms.
Risks: No known significant effects or hazards.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Suitable

extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture

Specific hazards

during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Advice for firefighters

Special protective equipment for

firefighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Environmental precautions:

Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up:

Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling:

For personal protection see section 8. Follow standard hygiene measures when handling chemical products.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.

Other data:

No decomposition if stored and applied as directed.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters*	Basis *
2-butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m ³	2000/39/EC
		STEL	50 ppm 246 mg/m ³	2000/39/EC
		AGW	10 ppm 49 mg/m ³	DE TRGS900

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

Exposure controls

Personal protective equipment

Respiratory protection:

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Organic vapor (Type A) and particulate filter A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm P1: Inert material; P2: Xn; P3: T, T+
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 – Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications. Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (0,4 mm), contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.

Eye protection: Safety glasses with side-shields. Eye wash bottle with pure water.

Skin and body protection: Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice: Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	liquid
Colour:	white
Odour:	characteristic
Odour threshold:	no data available
Flash point:	> 101 °C
Ignition temperature:	not applicable
Lower explosion limit (Vol%):	no data available
Upper explosion limit (Vol%):	no data available
Flammability (solid, gas):	no data available
Oxidizing properties:	no data available
Auto-ignition temperature:	no data available
pH:	8.7 at 20 °C
Melting point/range / Freezing point:	no data available
Boiling point/boiling range:	no data available
Vapour pressure:	ca.23 hPa at 20 °C
Density:	ca.1,26 g/cm ³ at 20 °C
Water solubility:	Note: soluble
Partition coefficient noctanol/water:	no data available
Viscosity, dynamic:	no data available
Viscosity, kinematic:	ca.> 20,5 mm ² /s at 40 °C
Relative vapour	

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density: no data available
Evaporation rate: no data available

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

Hazardous reactions: Stable under recommended storage conditions. No decomposition if used as directed.

Conditions to avoid: no data available

Incompatible materials

Materials to avoid: no data available

Hazardous decomposition products

Thermal decomposition: no data available

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity: no data available

Acute inhalation toxicity: no data available

Acute dermal toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Mutagenicity: no data available

Carcinogenicity: no data available

Reproductive toxicity: no data available

Teratogenicity: no data available

Components:

2-butoxyethanol:

Acute oral toxicity: Acute toxicity estimate: 500 mg/kg. Converted acute toxicity point estimate.

Acute dermal toxicity: Acute toxicity estimate: 1.100 mg/kg. Converted acute toxicity point estimate.

3-(3,4-dichlorophenyl)-1,1-dimethylurea:

Acute toxicity estimate: 500 mg/kg. Converted acute toxicity point estimate.

12. ECOLOGICAL INFORMATION**Toxicity****Components:**

3-(3,4-dichlorophenyl)-1,1-dimethylurea :

M-Factor: 10**Persistence and degradability:** no data available**Bioaccumulative potential:** no data available**Mobility in soil:** no data available**Other adverse effects:** no data available**Other adverse effects:** no data available**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

Disposal considerations: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any other regional local authority requirements. The classification of the product may meet the criteria for hazardous waste.

14. TRANSPORT INFORMATION**ADR:** Not dangerous goods**IATA:** Not dangerous goods**IMDG:** Not dangerous goods**Special precautions for user:** No data available**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:**

Not applicable

15. REGULATORY INFORMATION

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

Candidate List of Substances of Very High Concern for

Authorisation:

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH Information:

This product is preregistered or registered by our upstream suppliers, and/or preregistered or registered by the manufacturer, and/or excluded from the regulation, and/or exempted from the registration

VOC-CH (VOCV): 1.9 % no VOC duties**VOC-EU (solvent):** 1.9 %

Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R40	Limited evidence of a carcinogenic effect.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50	Very toxic to aquatic organisms.
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.
R53	May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
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.

Key or legend to abbreviations and acronyms used in the safety data sheet:

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
 STOT-SE = Specific Target Organ Toxicity - Single Exposure
 DNEL = Derived No Effect Level
 ATE = Acute Toxicity Estimate
 ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation
 [Regulation (EC) No. 1272/2008]

This information is offered in good faith but without guarantee or liability. In cases of doubt, users should consult with relevant authority. Information given herein is supplied for your guidance only and is based upon the results of controlled tests and experience obtained in the application of the product referred to by Decor Ireland. As the supplier only, Decor Ireland has no control over the method or conditions of application of the product and consequently no warranties expressed or implied are intended to be given as to the coverage or performance of the products mentioned or referred to herein and no liability will be excepted for any loss, damage or physical injury from the use or application of the information, data or products mentioned or referred to herein.

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