

SAFETY DATA SHEET – FLINTSBOND

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY

1.1. Product identifier:

Product Name / Code: FlintsBond, ADH141

REACH Key Notes: -

1.2. Relevant identified uses of the substance or mixture:

Primers, Sealers, and Undercoaters.

1.3. Details of the supplier of the safety data sheet:

Company: Flints Theatrical Chandlers Ltd
Unit 9 Deptford Trading Estate
Blackhorse Road
SE8 5HY

Telephone: +44 (0) 20 7703 9786

Email: sales@flints.co.uk

Telephone operated from 08:30 - 17:30 Monday to Friday, 09:00 - 14:00 Saturday.
In an emergency, seek advice from a medical professional.

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Not classified

2.2. Label Elements

Not classified

Signal word: None

Hazard statements Not classified

EU Specific Hazard Statements EUH208 - Contains Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone. May produce an allergic reaction

Precautionary statements P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P280 - Wear protective gloves and eye/face protection

2.3. Other Hazards

No information available

PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical Name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration No.
2,2,4-Trimethyl-1,3-pent anediol diisobutyrate	229-934-9	6846-50-0	0.1 - <1	Repr. 2 (H361d) Aquatic Chronic 3 (H412)		01-211945109347-XXXX
Vinyl acetate	203-545-4	108-05-4	0.1 - <1	STOT SE 3 (H335) Carc. 2 (H351) Acute Tox. 4 (H332) Flam Liq. 2 (H225) Aquatic Chronic 3 (H412)		01-211947130150-XXXX
Methyl alcohol	200-659-6	67-56-1	0.1 - <1	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	01-211939240928-XXXX
2-Bromo-2-nitro-1,3-prop anediol	200-143-0	52-51-7	0.01 - <0.1	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) M Factor Acute =10		01-211998093815-XXXX
Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl-with 2-methyl-3(2H)-isothiazolone	611-341-5	55965-84-9	<0.0015	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) M Factor Acute = 100 M Factor Chronic = 10	Eye Irrit. 2 :: 0.06%<=C<0.6% Skin Corr. 1B :: C>=0.6% Skin Irrit. 2 :: 0.06%<=C<0.6% Skin Sens. 1 :: C>=0.0015%	No data available

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

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Take a copy of the Safety Data Sheet when going for medical treatment.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

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

Symptoms	No information available.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Treat symptomatically..
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5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Full water jet. Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical:	Thermal decomposition can lead to release of toxic and corrosive gases/vapours.
Hazardous Combustion Products	Carbon monoxide. Carbon dioxide (CO ₂). Hydrocarbons.

5.3. Advice for firefighters

Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid contact with eyes.
Other information	Ventilate the area. Prevent further leakage or spillage if safe to do so.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Do not flush into surface water or sanitary sewer system. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling	Ensure adequate ventilation. Avoid contact with eyes. Use personal protection recommended in Section 8.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feedingstuffs.
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7.3. Specific end use(s)

Specific Use(s)	Primers, Sealers, and Undercoaters.
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.
Other Information	Observe technical data sheet.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits:

Derived No Effect Level (DNEL) - 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0) - Worker
Systemic health effects Long term:

Dermal	Derived No Effect Level (DNEL):	
	3.12 mg/kg bw/d	
Inhalation	Derived No Effect Level (DNEL)	110 mg/m ³

Derived No Effect Level (DNEL)- 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0) - Consumer
Systemic health effects Long term

Dermal	Derived No Effect Level (DNEL):	
	18.8 mg/kg bw/d	
Inhalation	Derived No Effect Level (DNEL):	
	32.6 mg/m ³	
Oral	Derived No Effect Level (DNEL):	
	18.8 mg/kg bw/d	

Predicted No Effect Concentration (PNEC) - 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.014 mg/l
Marine water	0.0014 mg/l
Freshwater sediment	1.15 mg/kg dry weight
Marine sediment	0.115 mg/kg dry weight
Soil	0.926 mg/kg dry weight

Microorganisms in sewage treatment 3 mg/l

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment:

Eye/Face Protection Wear safety glasses with side shields (or goggles).
Avoid contact with eyes.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory Protection During spraying wear suitable respiratory equipment.

Environmental Exposure Controls Do not allow into any sewer, on the ground or into any body of water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Appearance	viscous
Colour	White
Odour	Slight, Petroleum
Odour Threshold	No information available
pH	4 - 6
Melting point / freezing point	0 °C
Boiling point / boiling range	100 °C
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	Upper flammability or explosive limits No data available limits Lower flammability or explosive limits
No data available	
Vapour Pressure	No data available
Vapour Density	No data available
Relative Density	1.05 -
Water Solubility	Dispersible
Solubility(ies)	No data available
Partition coefficient	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Kinematic Viscosity	No data available
Dynamic Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2. Other information

Solid content (%)	28
Softening Point	No information available
Molecular Weight	No information available
VOC (volatile organic compound)	No information available
Density	No information available
Bulk Density	No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion Data:

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO₂). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Product information .

Inhalation Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

Skin contact Based on available data, the classification criteria are not met.

Ingestion Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity:

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 88,939.00 mg/kg

ATEmix (inhalation-dust/mist) 445.58 mg/l

ATEmix (inhalation-vapour) 2,668.00 mg/l

. Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate 6846-50-0	> 3200 mg/kg (Rat)	>2000 mg/Kg (Rabbit)	> 5.3 mg/L (Rat) 6 h
Vinyl acetate 108-05-4	= 2900 mg/kg (Rat)	= 2335 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h = 3680 ppm (Rat) 4 h
Methyl alcohol 67-56-1	= 2500 mg/kg (Rat)	200-1000 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h = 64000 ppm (Rat) 4 h
2-Bromo-2-nitro-1,3-propanediol 52-51-7	= 180 mg/kg (Rat)	= 1600 mg/kg (Rat)	= 800 mg/m3 (Rat) 4 h > 5 g/m3 (Rat) 6 h
Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone 55965-84-9	= 53 mg/kg (Rat)		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Vinyl acetate 108-05-4:

Carc. 2

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

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12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
2,2,4-Trimethyl-1,3-pent anediol diisobutyrate 6846-50-0	-	LC50: >1.55mg/L (96h, Pimephales promelas)	-	EC50: >1.46mg/L (48h, Daphnia magna)	-
Vinyl acetate 108-05-4	-	LC50 96 h = 14 mg/L (Pimephales promelas static)	EC50 = 2080 mg/L 5 min	EC50 48 h = 12.6 mg/L (Daphnia magna)	-
Methyl alcohol 67-56-1	-	LC50: 19500 20700mg/L (96h, Oncorhynchus mykiss) LC50:18 - 20mL/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: =28200mg/L (96h, Pimephales promelas) LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus)	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	-	-
2-Bromo-2-nitro-1,3-prop anediol 52-51-7	EC50 (72h) =0.37 mg/L (Pseudokirchneriella subcapitata) (OECD 201)	=35.7 mg/L (Lepomis macrochirus) Flow through (EPA OPP 72-1)	EC50 = 0.41 mg/L 30 min EC50 = 0.50 mg/L 15 min EC50 = 0.91 mg/L 5 min	EC50 (48h) =1.4 mg/L (Daphnia magna, static) (OECD 202)	-
Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone 55965-84-9	EC50 (72h) =0.048 mg/L (Pseudokirchneriella subcapitata) (OECD 201)	EC50 (96h) = 0.22 mg/L (Oncorhynchus mykiss) (OECD 211)	-	EC50 (48h) =0.1 mg/L (Daphnia magna) (OECD 202)	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
Vinyl acetate 108-05-4	0.73	-
Methyl alcohol 67-56-1	-0.77	10
2-Bromo-2-nitro-1,3-propanediol 52-51-7	0.22	3.15

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Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2 methyl-3(2H)-isothiazolone 55965-84-9	-	3.6
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12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Chemical Name	PBT and vPvB assessment
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate 6846-50-0	The substance is not PBT / vPvB
Vinyl acetate 108-05-4	The substance is not PBT / vPvB PBT assessment does not apply
Methyl alcohol 67-56-1	The substance is not PBT / vPvB PBT assessment does not apply
2-Bromo-2-nitro-1,3-propanediol 52-51-7	The substance is not PBT / vPvB
Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone 55965-84-9	The substance is not PBT / vPvB

12.6. Other adverse effects

Other Adverse Effects No information available.

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors Evaluated Substances
Vinyl acetate	Group III Chemical	-

13. DISPOSAL INFORMATION

13.1. Waste treatment methods

Waste from residues/unused products Dispose of contents/ container to an approved landfill.

Contaminated packaging Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.

Other Information Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

Note: Keep from freezing.

Land transport (ADR/RID)

14.1 UN Number Not regulated

14.2 Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing Group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special Provisions None

IMDG:

14.1 UN Number Not regulated

14.2 Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing Group Not regulated

14.5 Marine Pollutant Np

14.6 Special Provisions None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

No information available

Air transport (ICAO-TI / IATA-DGR)

14.1 UN Number Not regulated

14.2 Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing Group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special Provisions None

15. REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006):

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical Name	CAS No.	Restricted substance per REACH Annex XVII
Methyl alcohol	67-56-1	69.

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Contains a biocide : Contains C(M)IT/MIT (3:1). May produce an allergic reaction

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical Name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Methyl alcohol - 67-56-1	500	5000

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.

16. OTHER INFORMATION

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

Full text of H-Statements referred to under section 3

H335	May cause respiratory irritation
H351	Suspected of causing cancer
H332	Harmful if inhaled
H225	Highly flammable liquid and vapour
H412	Harmful to aquatic life with long lasting effects
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H301	Toxic if swallowed
H311	Toxic in contact with skin
H330	Fatal if inhaled
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H370	Causes damage to organs
H361d	Suspected of damaging the unborn child

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend

SECTION 8: Exposure controls/personal protection:

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value
*	Skin designation
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC:	European Waste Catalogue

Key literature references and sources for data:

Classification and labeling data calculated from data received from raw material suppliers

Prepared By Product Safety & Regulatory Affairs

Revision Date 31-Oct-2018

Indication of changes

Revision Note Not applicable.

Training Advice No information available

Further information No information available

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FLINTS
Theatrical Chandlers

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.