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MATERIAL SAFETY DATA SHEET

FUSETITE



Supersedes date: 09/09/2014

Revision date: 25/05/2017

Revision: 3

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name Excel Industries Fusetite

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

Identified uses PVC Cement

1.3. Details of the supplier of the safety data sheet

Supplier Excel Industries
Coolmine Industrial Estate
Clonsilla Road
Dublin 15

Tel: 00 353 1811 8701

Fax: 00 353 1811 8785

1.4. Emergency telephone number

Emergency telephone Excel Industries: 00 353 1811 8701 (Mon-Fri: 09:00-17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH208 Contains EPOXY RESIN (Number average MW \leq 700). May produce an allergic reaction.



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Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/ container in accordance with national regulations.

Contains

BUTANONE

Supplementary precautionary statements

P240 Ground/ bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
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. In use may form flammable/explosive vapour-air mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BUTANONE 60-100%		
CAS number: 78-93-3	EC number: 201-159-0	REACH registration number: 01-2119457290-43
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
CYCLOHEXANONE 5-10%		
CAS number: 108-94-1	EC number: 203-631-1	REACH registration number: 01-2119453616-35-0000
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H332		



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EPOXY RESIN (Number average MW \leq 700)

<1%

CAS number: 25068-38-6

EC number: 500-033-5

Classification

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

Aquatic Chronic 2 - H411

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

SECTION 4: First aid measures**4.1. Description of first aid measures**

General information	Remove affected person from source of contamination.
Inhalation	Move affected person to fresh air at once. Get medical attention.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
Skin contact	Remove from skin with paper or towel. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention. Show this Safety Data Sheet to the medical personnel.

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

General information	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing.
Ingestion	There may be soreness and redness of the mouth and throat. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin contact	There may be irritation and redness at the site of contact
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

Notes for the doctor	Show this safety data sheet to the doctor in attendance.
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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media** Water spray, dry powder or carbon dioxide.**5.2. Special hazards arising from the substance or mixture**

Specific hazards	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m ³ . The product is flammable.
Hazardous combustion products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters



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Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent escape of liquid. Avoid inhalation of vapours and contact with skin and eyes. No smoking, sparks, flames or other sources of ignition near spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. 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. Provide adequate ventilation. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Avoid inhalation of vapours and spray/mists. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a well-ventilated place. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

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

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

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Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 600 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 899 mg/m³(Sk)

CYCLOHEXANONE

Long-term exposure limit (8-hour TWA): WEL 10 ppm(Sk)

Short-term exposure limit (15-minute): WEL 20 ppm(Sk)

WEL = Workplace Exposure Limit

BUTANONE (CAS: 78-93-3)



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**DNEL**

Consumer - Oral; Long term systemic effects: 31 mg/kg/day
Consumer - Dermal; Long term systemic effects: 412 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 106 mg/m³
Industry - Inhalation; Long term systemic effects: 600 mg/m³

PNEC

- Fresh water; Long term 55.8 mg/l
- Marine water; Long term 55.8 mg/l
- Intermittent release; Intermittent release 55.8 mg/l
- STP; Long term 709 mg/l
- Sediment; Long term 284.7 mg/kg
- Soil; Long term 22.5 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation.

Personal protection

Wear protective work clothing.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear suitable gloves if prolonged or repeated skin contact is likely

Hygiene measures

Do not eat, drink or smoke when using this product.

Respiratory protection

If exposure limits are likely to be exceeded, use a full face mask fitted with an organic filter for short term exposures. For long term or high level exposures, or when spraying, compressed airline breathing apparatus should be used.

Environmental exposure controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

Appearance	Viscous liquid.
Colour	Colourless to pale yellow.
Odour	Ketonic.
Flash point	-4°C
Relative density	0.92 @ °C
Solubility(ies)	Immiscible with water.
Viscosity	~20000 mPa s @ 20°C

9.2. Other information

Other information	Not available.
Volatile organic compound	This product contains a maximum VOC content of 800 g/l.

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No known hazardous reactions if stored under normal conditions. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity - dermal

Acute toxicity - inhalation

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Headache. Dizziness. Drowsiness. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Vapours may cause drowsiness and dizziness.

Ingestion May cause soreness and redness of mouth and throat. Ingestion may cause similar symptoms to that of inhalation.

Skin contact Repeated exposure may cause skin dryness or cracking. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact Irritating to eyes.

Acute and chronic health hazards Irritating to eyes. May cause sensitisation by skin contact.

Route of entry Inhalation Ingestion.

Target organs Central nervous system Eyes

Medical symptoms Irritation of eyes and mucous membranes. Narcotic effect. Drowsiness. Dizziness.

Toxicological information on ingredients.

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Toxicological effects

The toxicity of this substance has been assessed during REACH registration. Vapour is irritating to eyes and respiratory tract, may cause systemic effects: narcosis, headaches. Liquid is severely irritating to eyes, irritating to skin, and may cause dermatitis due to defatting. Ingestion may cause sore throat, nausea, diarrhoea.

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,000.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 5,000.0

Species Rat

ATE inhalation (vapours mg/l) 5,000.0

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact Irritation of eyes and mucous membranes.

CYCLOHEXANONE

Toxicological effects

The toxicity of this substance has been assessed during REACH registration.

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 8,000.0

Species Rat

ATE inhalation (gases ppm) 4,500.0

ATE inhalation (vapours mg/l) 11.0

ATE inhalation (dusts/mists mg/l) 1.5

SECTION 12: Ecological Information

Ecotoxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity

Not regarded as dangerous for the environment



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Ecological information on ingredients.

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Toxicity	Low toxicity to fish
Acute toxicity - fish	LC50, 96 hours: 2993 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 308 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 2029 mg/l, Freshwater algae
Acute toxicity - microorganisms	EC ₅₀ , 96 hours: > 50 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability Biodegradable in part only.

Ecological information on ingredients.

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Persistence and degradability	The product is biodegradable.
Phototransformation	Water - Degradation (%) 98: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

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Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

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

Ecological information on ingredients.

BUTANONE

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 substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects Not known.

Ozone depletion potential

Global warming potential (GWP)

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Avoid the spillage or runoff entering drains, sewers or watercourses. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class Solvent Based Adhesives: 080409

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1133

UN No. (IMDG) 1133

UN No. (ICAO) 1133

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ADHESIVES

Proper shipping name (IMDG) ADHESIVES

Proper shipping name (ICAO) ADHESIVES

Proper shipping name (ADN) ADHESIVES

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID label 3

IMDG class 3

ICAO class/division 3

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS F-E,S-D

Tunnel restriction code (D/E)

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



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Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended).
EU legislation	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). 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).
Guidance	Workplace Exposure Limits EH40.
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008	Flam. Liq. 2 - H225: Weight of evidence. Eye Irrit. 2 - H319: Calculation method. STOT SE 3 - H336: Calculation method.
Issued by	Technical Service Manager
Revision date	25/05/2017
Revision	3
Supersedes date	09/09/2014
SDS number	10762
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. EUH208 Contains EPOXY RESIN (Number average MW <= 700). May produce an allergic reaction.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.