1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Identifier

- Product name: Elastacote
- Product codes: ELMV

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture: PC9a: Coating

Details of the Supplier of the Material Safety Data Sheet

- Company Address: 1a Prestwood Place, Skelmersdale, WN8 9QE
- Web: https://topedevelopments.com/
- Email address of the competent person: enquiries@topedevelopments.com
- Emergency telephone numbers
  - TOPE Developments: +44 (0)7821 694155 / +44 (0)7913954616
  - National Poisons Information Service: Call 111

2. Hazards Identification

- Refer to Section 16 for: The explanation of the abbreviations used throughout this MSDS
  The full list of Hazard Phrases stated throughout this MSDS

2.1 Classification of the Substance or Mixture Product Identifier

- Classification under CLP: On the available data the product has no hazard classification
- Most important adverse effects: On the available data the product has no hazard classification. To our knowledge, this product does not present a particular risk, provided it is handled and used in accordance with good occupational hygiene and safety practice

2.2 Label Elements

- Hazard statements: N/A
- Signal words: N/A
- Hazard pictograms: N/A
- Precautionary statements: To be handled and used in accordance with good occupational hygiene and safety practice. Wear PPE as Section 8.2, handle and store as Section 7, manage accidental release as Section 6 and follow the instructions in the Datasheet

2.3 Other Hazards

- PBT / vPvB: This product is not identified as a PBT / vPvB substance
- Other Hazards: No other hazards

3. Composition/information on ingredients

3.2 Mixture This product is a mixture

Hazardous Substances

Chemical name	CAS	EINECS	REACH Registration Number	Percentage	Classification
Bitumen (Asphalt)	8052-42-4	232-490-9	01-2119480172-44	30-50	Not classified

NB Please also refer to Section 8 Personal Protection / Exposure Controls

4. First Aid Measures

4.1 Description of First Aid Measures

- General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice, taking this MSDS to show the doctor
- Skin contact: Remove contaminated clothing. Gently wash with soap and water. If skin irritation or rash occurs seek medial advice
- Eye contact: Immediately flush eyes with water for at least 15 minutes. Remove contact lenses if present and easy to do so, then continue rinsing. If eye irritation persists, seek medical advice / attention
- Ingestion: Wash out mouth with water. Do not induce vomiting without medical advice. Get medical advice / attention if the you feel unwell
- Inhalation: Remove person to fresh air and keep comfortable and breathing. Get medical advice / attention if you feel unwell

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- General: The product is not expected to present a significant hazard under anticipated conditions of normal use and following the recommendations in Sections 6, 7 and 8 of this MSDS
- Skin contact: NDA
- Eye contact: NDA
- Ingestion: NDA
- Inhalation: NDA
- Delayed / immediate effects: NDA

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Immediate / special treatment: Eye bathing equipment and First Aid Box should be available
  Take this MSDS with you when seeking medical advice

5. Fire-Fighting Measures

5.1 Extinguishing Media Foam, dry powder, carbon dioxide, water spray (not heavy water stream or jet) and sand. Select as required by the surrounding materials, etc

5.2 Special Hazards Arising from the Material

Presents no particular fire or explosion hazard

Combustion generates carbon oxides (CO_2, CO), soot, small amounts of hydrogen chloride

5.3 Advice for Firefighters Use water spray or fog for cooling containers exposed to the fire. Exercise caution when fighting any chemical fire

Prevent fire fighting water from entering the environment

Do not enter the area without wearing proper protective equipment, including breathing apparatus

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Do not attempt to take action without wearing suitable personal protection, refer to Section 8.2 of the MSDS

Evacuate unnecessary personnel. If outside do not approach from downwind. If outside keep bystanders and passing persons upwind and away from the danger point. Mark out the contaminated area with signage and prevent access by unauthorised persons

Turn leaking containers leak-side up to prevent the escape of material, and place in a leak proof labelled container

6.2 Environmental Precautions

Prevent the product from entering drains or watercourses (refer to Section 11). Contain the spillage using bunding

6.3 Methods and Materials for Containment and Cleaning Up

Clean-up should ONLY be dealt with by a qualified person familiar with the specific product

Large spillages should be contained by bunding and carefully transferred into a sealable impervious container. Remnants from large spillages and small spillages should be absorbed in sand and transferred into sealable impervious container. These containers to be labelled and held for disposal as Section 13

6.4 Reference to Other Sections

Refer to Section 8, 12 and 13 of the MSDS

7. Handling and Storage

7.1 Precautions for Safe Handling

a. Safe handling

No special precautions needed

Avoid direct contact with the material. Ensure there is sufficient ventilation of the area. Wear A1 filter mouth & nose mask protection in a confined space , or A1P2 if particulates are present. Avoid the formation or spread of mist in the air

Do not eat, drink or smoke when handling. Wash hands after using the material

b. Prevention of handling incompatible substances or mixtures

Do not handle other substances or mixtures at the same time. Keep away from other substances and mixtures

c. Operations and conditions that could create new risks

Do not allow opened, part used or the container in use to come into contact with other materials including all surfaces around. Ensure the containers are securely sealed during transport and storage in vehicles

d. Reduce risk of release to the environment

Ensure the floor at storage, transport and the work location will not allow access to drains or water courses. Lay heavy gauge plastic sheeting or similarly impervious protective covering. Contain and clean up spillage as Section 6.3 of the MSDS

7.2 Conditions for Safe Storage, Including Any Incompatibilities

a. Storage conditions — Store in a well ventilated area between +5˚C and 35˚C. Only store in original containers. Keep container tightly closed. The floor of the storage area to be impermeable to prevent the escape of spillage

b. Control of the effects of weather, ambient pressure, temperature, sunlight, humidity and vibration

Protect from freezing, frost, heat and direct sunlight
Ensure containers are securely closed against vibration spillage during transport when loading / unloading vehicles, during transport and moving from vehicle to the work location. Unopened containers to be protected against damage during the same movements

c. Storage with other substances and mixtures

Store in the original packaging. Store in outer containers against falling / touching other materials and in an allocated location

d. Storage room design, quantity limits, ventilation and packaging compatibilities

Storage room to be dry, ventilated, and constructed to have impermeable floors and walls to prevent the escape of spillages into the environment

e. Other considerations — Use of the stock must be by manufacturing date or expiry date rotation. Containers past their expiry date must be removed for disposal according to Section 13 of the MSDS. No other data available

7.3 Specific End Use(es) — Seamless rubber waterproofing membrane, also used to terminate at or joint across other waterproofing details and as a primer for adhesion of other butyl products.

8. Personal Protection/Exposure Control

8.1 Control Parameters

Workplace Exposure Limits (WEL) — Taken from the HSE EH40 Table: no limit stated = not on EH40
if no 15 min STEL use 3x TWA

Comments Key

Carc: Capable of causing cancer and / or heritable genetic damage

Sen: Capable of causing occupational asthma

Sk: Can be absorbed through the skin, assigned here to substances for which there are concerns that dermal absorption will lead to systematic toxicity

Substance	Long-term exposure limit (8hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Comments
	ppm	mg / m³	ppm	mg / m³	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to substances identified in IOELV Directives
Bitumen	-	5	-	10	N/A
Note: Bitumen's alternate name under CAS = Asphalt, petroleum fumes					

DNEL / PNEC — NDA

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls — Ensure there is sufficient ventilation in the area, including forced ventilation if necessary or in an enclosed space. The floor must be impermeable to prevent the escape of liquids, laying impermeable protective covering if in doubt

Isolate the work area with warning signage against unauthorised access. Ensure all other persons are pre-notified of the works and remain clear of the work area

	Do not eat, drink or smoke during stirring or use of the product. Wash hands with soap and water before eating, drinking or smoking and when leaving the work site for natural breaks, break times and leaving at end of the working day
8.2.2 Personal Protective Equipment	
a. Eye / face protection	Goggles, safety glasses with side protection or face visor EN166. Ensure eye bath facilities are available
b. Skin protection	
(i) Hand Protection	To be impermeable and resistant to the product / substance / mixture. Due to missing tests no recommendation to the glove material can be given. Selection of the glove material to be on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC, this being repealed by EU 2016/425 on 21/04/2018, and the resultant standard EN 374
	The selection of the suitable gloves does not only depend upon the material, but also further marks of quality and varies from manufacturer to manufacturer
	Break through, and other characteristics, depending upon material density and the glove type, and must be determined in each case
	Gloves must be inspected prior to each time used and must be replaced when damaged or worn out
	Impervious gloves, chemical resistant
Penetration time of gloves	Breakthrough time of the glove material > 4 hours
(ii) Other	Protective clothing, waterproof if splashing occurs
	Good hygiene measures should be followed at all times
c. Respiratory protection	Mouth & nose filter face mask, minimum P3 A1P2 vapour & particulate filter, and especially when spraying. In the case of inadequate ventilation wear respiratory protection.
	Mist formation; wear aerosol mask EN 143
d. Thermal hazards	NDA

9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

• Appearance	
(i) Form	Viscous liquid
(ii) Colour	Milky brown
• Odour	Characteristic odour
• Odour threshold	NDA
• pH	11-13
• Melting point/range °C	NDA
• Freezing point/range °C	NDA
• Initial boiling point/range °C	Approx 100^{0}C
• Flash point/self-ignition °C	The product is not flammable
• Relative evaporation rate (butylacetate=1)	
	NDA

- Flammability (solid, gas) NDA
- Flammability limits, lower % NDA
- Flammability limits, upper % NDA
- Auto flammability °C NDA
- Decomposition temperature NDA
- Explosive properties NDA
- Explosive limits NDA
- Oxidising properties NDA
- Vapour pressure As water
- Relative vapour density at 20°C NDA
- Relative density 1.05
- Solubility in water Miscible in all proportions
- Partition coefficient n-octanol/water NDA
- Also soluble in Most organic solvents
- Viscosity, kinematic NDA
- Viscosity, dynamic NDA
- VOC g/l 0

9.2 Other Information NDA

10. Stability and Reactivity

10.1 Reactivity Stable under recommended transport or storage conditions

10.2 Chemical Stability Stable under recommended transport or storage conditions and when protected against the materials or conditions listed below

10.3 Possibility of Hazardous Reactions No dangerous reactions known

10.4 Conditions to Avoid Sources of ignition, heat and direct sunlight

10.5 Incompatible Materials to Avoid Avoid contact with aluminium, strong acids, strong bases and strong oxidising agents

10.6 Hazardous Decomposition Products

Combustion generates: Carbon oxides (CO, CO_2) and small amounts of hydrogen chloride

11. Toxicological Information

11.1 Information on Toxicological Effects

- Acute toxicity

Hazardous ingredients None

Relevant hazards for product NDA

Excluded hazards for product

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	Based on available data the classification criteria is not met
Acute toxicity (ac. tox. 3)	-	Based on available data the classification criteria is not met
Acute toxicity (ac. tox. 2)	-	Based on available data the classification criteria is not met
Acute toxicity (ac. tox. 1)	-	Based on available data the classification criteria is not met
(continued)		

Skin corrosion / irritation	-	Based on available data the classification criteria is not met, pH 11 - 13
Serious eye damage/irritation	-	Based on available data the classification criteria is not met, pH 11 - 13
Respiratory/skin sensitisation	-	Based on available data the classification criteria is not met
Germ cell mutagenicity	-	Based on available data the classification criteria is not met
Carcinogenicity	-	Based on available data the classification criteria is not met
Reproductive toxicity	-	Based on available data the classification criteria is not met
STOT single exposure	-	Based on available data the classification criteria is not met
STOT repeated exposure	-	Based on available data the classification criteria is not met
Aspiration hazard	-	Based on available data the classification criteria is not met

Symptoms / routes of exposure — Refer to Section 4 of this MSDS

12. Ecological Information

12.1 Ecotoxicity

- Acute aquatic toxicity — Not classified
- Chronic aquatic toxicity — Not classified

12.2 Persistence and Biodegradability — Not established

12.3 Bioaccumulative Potential — Not established

12.4 Mobility in Soil — No additional information available

12.5 Results of PBT & vPvT Assessment — This mixture does not meet the PBT criteria of REACH regulation, Annex XIII

This mixture does not meet the vPvT criteria of REACH regulation, Annex XIII

12.6 Other Adverse Effects — Avoid release to the environment

13. Disposal Considerations

13.1 Waste Treatment Methods

- Disposal operations — Waste bitumen latex emulsion must not be discharged directly into drains or waterways. It must be disposed as controlled waste under local, national or EC Regulations
- Recovery operations — N/A. Dispose as the above 'Disposal operations'
- Waste code number — The material ELMV: 17 03 02

  Packaging plastic containers: Containing remnants of ELMV: 17 03 02

  Cleaned: 15 01 02
- Disposal of packaging — Contaminated containers: Dispose as controlled waste

  Cleaned containers: Cut to ensure no unauthorised use and recycle as plastic waste
- Special precautions for the disposal method

  Ensure substances or mixtures are not mixed with other materials and not held in the same outer container with other materials
- NB — The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

14. Transport Information

14.1 UN Number	The product is not classified as hazardous for transport
14.2 UN Proper Shipping Name	Not regulated
14.3 Transportation Hazard Class(es)	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazards	Not regulated
14.6 Special Precautions for User	Not regulated for transport by road, sea, air, rail or inland waterway
14.7 Transport in Bulk According to:	
(i) Annex II of Marpol	N/A
(ii) the IBC Code	N/A

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance, Mixture or Article

COMMISSION REGULATION (EU) No 2015/830 of 28/05/2015 amending Regulation (EC) No 1907/2006 and repealing (EU) 453/2010 20 May 2010 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/ EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/ EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

- Other regulations, limitations and prohibitive regulations

The product contains no REACH substances with ANNEX XVII restrictions, no REACH Annex XIV substances and no substance on the REACH candidate list

15.2 Chemical Safety Assessment A chemical safety assessment has not been carried out

16. Other Information

Other Information	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship
Phrases Used in Sections 2 & 3	N/A
Notice	The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties. 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 other process
Abbreviations & Acronyms	CAS: Chemical Abstracts Service (division of the American Chemical Society) CLP: EU Regulation 1272/2008: Classification, Labelling & packaging of chemical substances DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Level (REACH) EINECS: European Inventory of Existing Commercial Chemical Substances HSE: (UK) Health & Safety Executive

MSDS: Material Safety Data Sheet
N/A: Not Applicable
NDA: No Data Available
PBT: Persistent, Bioaccumulative and Toxic substances
vPvB: Very Persistent and very Bioaccumulative substances
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals: Regulation (EC) No 1907/2006
STEL: Short Term Exposure Limit
STOT RE: Specific target organ toxicity (from) repeated exposure
STOT SE: Specific target organ tox
TWA: Time Weighted Averages
VOC: Volitile organic compounds