



COSHH Risk Assessment No: 01

Name of substance, manufacturer and safety data sheet reference.	Asphalt (including Coloured Asphalt)		
Describe the activity or process <i>(Include how long and how often this is carried out and the quantity of substance used. A copy of a current safety data sheet (SDS) for the substance should be attached to this assessment and cross-referenced when completing it).</i>	Used as a material to repair and surface roads, footpaths, driveways and car parks. Hardened asphalt around an excavation will also be cut to meet specification. This is a regular, daily operation that cannot be avoided.		
Specify where the activity or process is being carried out	Public footpaths, carriageways and car parks Private paths, driveways and car parks		
Identify the persons at risk:	Employees (including trainees) ☒	Contractors ☒	Public ☐

Hazard(s)

Physical Nature of Hazard - SDS Section 9.1



Liquid



Dust



Solid



Fume



Mist



Vapour



Gas



Other (state) _____

Classification of Hazard - SDS Section 2.2



Moderate hazard



Acutely toxic



Corrosive



Health hazard



Flammable



Oxidising



Explosive



Gas under pressure



Harmful to the aquatic environment



Risk(s)

Signal Word - SDS Section 2.2

Warning



Danger



Add Hazard Statement(s) - SDS Section 2.2

H317 – May cause skin irritation

H335 – May cause respiratory irritation

H372 – Causes damage to organs through prolonged or repeated exposure (relates possible lung damage if exposed to respirable silica* that may be released if hardened asphalt is cut, drilled, milled or planed.)

Route of Exposure - SDS Section 4.1



Inhalation



Ingestion



Skin Contact



Contact with Eyes



Other (state) _____

Risks to Health – Most Important Symptoms and Effects - Refer to safety data sheet (attached) SDS Section 4.2

Burns, respiratory system damage, silicosis, dermatitis, malignant warts

Workplace Exposure Limits (WELs) please indicate n/a where not applicable - SDS Section 8.1

Long-term exposure level (8hrTWA):

Asphalt Fumes - 5mg/m³ 8hrs

Total Dust - 10mg/m³

Respirable Dust - 4mg/m³

Respirable Quartz (Crystalline Silica SiO₂) - 0.1mg/m³

Oil Mist (Flux Oil) – 5mg/m³ (coloured asphalt only)

Short-term exposure level (15 minutes):

Asphalt Fumes - 10mg/m³

Control Measures: (for example extraction, ventilation, training, supervision) - SDS Section 8.2

Dust caused by cutting hardened asphalt should be controlled by water suppression at all times and containment/extraction/filtration where possible.

Asphalt should only be laid in well ventilated areas.

PPE should be worn as specified below and the use of skin barrier cream is also recommended.

Hands should be washed thoroughly before handling or eating food or drink.

First Aid: Recommended Actions - SDS Section 4.1	
Inhalation:	Immediately remove to fresh air. If breathing difficulties are experienced, seek medical attention. If breathing has stopped, commence artificial resuscitation and seek medical attention immediately.
Ingestion:	Remove to fresh air. If person is conscious, rinse out mouth and give water to drink. Seek medical advice.
Skin Contact:	Burns caused by contact with hot material should be cooled by immediately flushing with large amounts of cold water. Do not attempt to remove anything from the burn area unless required to allow breathing. Seek medical attention. Bitumen may be removed under medical supervision.
Contact with Eyes:	If material is hot, apply the same measures as 'skin contact' above. If the material is cold, Immediately and thoroughly irrigate with eye wash solution or clean water. If symptoms develop or persist, seek medical attention.
Other:	n/a
Is health surveillance or monitoring required? Yes ☐ No ☒	

Personal Protective Equipment (state type and standard) - SDS Section 8.2			
 ☒	Dust masks should be used at all times when cutting hardened asphalt to ensure exposure is below Working Exposure Limits	 ☐	
 ☐		 ☒	Goggles should be worn if there is a risk of product entering the eyes (including dust). They must always be worn when cutting hardened asphalt.
 ☒	General purpose gloves should be worn to protect skin from burns	 ☒	Overalls and/or long sleeved jackets and full length trousers should be worn to protect skin from burns. Clean clothing as necessary to prevent bitumen permeating to clothing or skin underneath.
 ☒	Heat resistant safety boots should be worn to protect feet.	 ☐	

Storage Arrangements - SDS Section 7.2	
No special requirements. Asphalt is normally used upon receipt.	
Disposal of residual waste and Containers - SDS Section 13.1 and guidance	
Hazardous Waste ☐ Skip ☐ Return to Depot ☐ Return to Supplier ☐ Other (state) ☒	
(If Other Please State): Local recycling centre	

Firefighting measures, accidental release measures, toxicological information and ecological information are provided in the safety data sheet (attached).

Is exposure adequately controlled?	Yes ☒ No ☐
Risk Rating After Implementation of Control Measures (see guidance)	
High ☐	Medium ☐ Low ☒
Assessed by: Michael Watson	Date: 01 September 2017 Review Date: 01 September 2018