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#### 1. IDENTIFICATION OF THE SUBSTRATE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name/designation: Alumasc Bitumen Primer.

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

Relevant identified uses: Adhesive.

#### 1.3 Supplier details

Alumasc Building Products Ltd White House Works, Bold Road, Sutton, St Helens, Merseyside, United Kingdom, WA9 4JG Tel: +44 (0)1744 648400 e-mail: <u>technical@alumascroofing.com</u>

#### 1.4 Emergency telephone numbers

Association / Organisation: National Poisons Information Service Emergency telephone numbers: 0344 892 0111 (Healthcare professionals only)

Other emergency telephone numbers: Alumasc Building Products: +44 17 4464 8400 (Mon-Thurs 8.30-17.00, Fri 08.30-16.00)

#### 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

# Considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments. Classified as Dangerous Goods for transport purposes.

#### Classification according to Regulation (EC) No. 1272/2008 [CLP][1]:

H226 - Flammable Liquids Category 3, H336 - Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, H411 – Hazardous to the Aquatic Environment Long-Term Hazard Category 2, H372 - Specific Target Organ Toxicity - Repeated Exposure Category 1, H304 - Aspiration Hazard Category 1. Legend:

1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.

#### 2.2 Label elements

Hazard pictures:	
Signal word:	Danger.
Hazard statements:	H226: Flammable liquid and vapour. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects. H372: Causes damage to organs through prolonged or repeated exposure. H304: May be fatal if swallowed and enters airways.
Supplementary statements:	EUH066: Repeated exposure may cause skin dryness or cracking.
Precautionary statements prevention:	<ul> <li>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take action to prevent static discharges.</li> <li>P271 Use in a well-ventilated area.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> </ul>

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Precautionary statements response:	<ul> <li>P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/ first aider.</li> <li>P303+P361+P351 IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water/shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P312 Call a POISON CENTER/ doctor if you feel unwell.</li> <li>P331 Do NOT induce vomiting.</li> <li>P370+P378 In case of fire: Use alcohol resistant foam or fine spray/water fog to extinguish.</li> </ul>
Precautionary statements storage:	P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up.
Precautionary statements disposal:	P501: Dispose of contents/container to an authorised hazardous or special waste collection point in accordance with any local regulation.

# 2.3 Other hazards

Naphtha petroleum, Heavy, Hydrodesulfurised: Listed in the Europe Regulation (EU) 2018/1881 Specific Requirements for Endocrine Disruptors.

	3. COMPOSITION	AND INFORMATION	<b>ABOUT THE COMPONENTS</b>
--	----------------	-----------------	-----------------------------

# 3.1 Substances

See 'composition on ingredients' in Section 3.2.

#### 3.2 Mixtures

1. CAS No 2. EC No 3. Index No 4. REACH No	% [weight]	Name         Classified according to GB-CLP         SCL /         Nanoform           [1]         Regulation, UK SI 2019/720 and UK SI 2020/1567         M-Factor         Particle					
1. 64742-82-1. 2. 265-185-4   232-489-3 3. 649-330-00-2   649-345- 00-4 4. Not available	50-60	Naphtha Petroleum, Heavy, Hydrodesulfurised [e]Specific Target Organ Toxicity - Single Exposure Category 3 (Narcotic Effects), Aspiration Hazard Category 1, Flammable Liquid Category 3, Chronic Aquatic Hazard Category 2; H336, H304, H226, H411, EUH066[1]Not availableNot available					
Legend:	1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified						
	as having endocrine disrupting properties						

# 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

Eye contact:	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin contact:	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in the event of irritation.
Inhalation:	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

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Ingestion: If spontaneous vomiting appears imminent or occurs, hold the patient's head down, lower than their hips to help avoid possible aspiration of vomitus. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol.

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

See Section 11.

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

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. For petroleum distillates:

- In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption decontamination (induced emesis or lavage) is controversial and should be considered on the merits of each individual case; of course the usual precautions of an endotracheal tube should be considered prior to lavage, to prevent aspiration.
- Individuals intoxicated by petroleum distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function.
- Positive pressure ventilation may be necessary.
- Acute central nervous system signs and symptoms may result from large ingestions of aspiration-induced hypoxia.
- After the initial episode, individuals should be followed for changes in blood variables and the delayed appearance of pulmonary oedema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic and renal impairment Individuals with chronic pulmonary disease will be more seriously impaired, and recovery from inhalation exposure may be complicated.
- Gastrointestinal symptoms are usually minor and pathological changes of the liver and kidneys are reported to be uncommon in acute intoxications.
- Chlorinated and non-chlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecholamines so that arrhythmias may occur. Careful consideration of this potential adverse effect should precede administration of epinephrine or other cardiac stimulants and the selection of bronchodilators.
- BP America Product Safety & Toxicology Department.

# 5. FIRE-FIGHTING MEASSURES

#### 5.1 Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.

#### 5.2 Special hazards arising from the substance or mixture

#### Fire incompatibility:

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

# 5.3 Advice for fire-fighters

#### Fire-fighting:

- Alert fire brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear full body protective clothing with breathing apparatus.

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# Fire/explosion hazard:

Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Combustion products include:

- Carbon Monoxide (CO)
- Carbon Dioxide (CO2)
- Other pyrolysis products typical of burning organic material.

#### 6. ACCIDENTIAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

See Section 8.

#### 6.2 Environmental precautions

See Section 12.

#### 6.3 Methods and material for containment and cleaning up

#### Minor spills:

- Remove all ignition sources.
- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.

#### Major spills:

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.

#### 6.4 Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

#### Safe handling:

The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.

- Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of overexposure occurs.
- Use in a well-ventilated area.
- DO NOT allow clothing wet with material to stay in contact with skin.

#### Fire and explosion protection:

See Section 5.

#### Other information:

- Store in original containers in approved flammable liquid storage area.
- Store away from incompatible materials in a cool, dry, well-ventilated area.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.

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#### 7.2 Conditions for safe storage, including any incompatibilities

#### Suitable container:

- Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks.
- For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.
- For materials with a viscosity of at least 2680 cSt.

# Storage incompatibility:

#### Xylenes:

- May ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride.
- Attack some plastics, rubber and coatings.
- May generate electrostatic charges on flow or agitation due to low conductivity.
- Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents.
- Aromatics can react exothermically with bases and with diazo compounds.

#### For alkyl aromatics:

The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring.

- Following reaction with oxygen and under the influence of sunlight, a hydroperoxide at the alpha-position to the aromatic ring, is the primary oxidation product formed (provided a hydrogen atom is initially available at this position)
- this product is often short-lived but may be stable dependent on the nature of the aromatic substitution; a secondary C-H bond is more easily attacked than a primary C-H bond whilst a tertiary C-H bond is even more susceptible to attack by oxygen.
- Monoalkylbenzenes may subsequently form monocarboxylic acids; alkyl naphthalenes mainly produce the corresponding naphthalene carboxylic acids.

#### Low molecular weight alkanes:

- May react violently with strong oxidisers, chlorine, chlorine dioxide, dioxygenyl tetrafluoroborate.
- May react with oxidising materials, nickel carbonyl in the presence of oxygen, heat.
- Are incompatible with nitronium tetrafluoroborate(1-), halogens and interhalogens.
- May generate electrostatic charges, due to low conductivity, on flow or agitation.

					<b>!</b>	Level and the second se
+	x	+	x	+	+	+

**X** - Must not be stored together.

- **O** May be stored together with specific preventions.
- + May be stored together.

**Note:** Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

#### 7.3 Specific end uses(s)

See Section 1.2.

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# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

Ingredient	DNELs	PNECs
	Exposure Pattern Worker	Compartment
Naphtha Petroleum, Heavy, Hydrodesulfurised:	Dermal 80 mg/kg bw/day (Systemic, Chronic) Inhalation 44 mg/m <sup>3</sup> (Systemic, Chronic) Dermal 7.56 mg/cm <sup>2</sup> (Local, Chronic) Inhalation 44 mg/m <sup>3</sup> (Local, Chronic) Dermal 30 mg/kg bw/day (Systemic, Acute) Inhalation 1 300 mg/m <sup>3</sup> (Systemic, Acute) Inhalation 1 100 mg/m <sup>3</sup> (Local, Acute) Dermal 40 mg/kg bw/day (Systemic, Chronic) * Inhalation 22 mg/m <sup>3</sup> (Systemic, Chronic) * Oral 10.56 mg/kg bw/day (Systemic, Chronic) * Dermal 3.78 mg/cm <sup>2</sup> (Local, Chronic) * Inhalation 22 mg/m <sup>3</sup> (Local, Chronic) * Dermal 60 mg/kg bw/day (Systemic, Acute) * Inhalation 1 200 mg/m <sup>3</sup> (Systemic, Acute) * Inhalation 55 mg/m <sup>3</sup> (Local, Acute) *	0.14 mg/L (Water (Fresh)) 0.35 mg/L (Water - Intermittent release) 0.014 mg/L (Water (Marine)) 1.14 mg/kg sediment dw (Sediment (Fresh Water)) 0.14 mg/kg sediment dw (Sediment (Marine))

\* Values for general population.

# Occupational Exposure Limits (OEL):

#### Ingredient data:

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not available						

#### **Emergency limits:**

Emergency limits:			
Ingredient	TEEL-1	TEEL-2	TEEL-3
Naphtha Petroleum, Heavy, Hydrodesulfurised	300 mg/m3	1,800 mg/m3	29500 mg/m3

Ingredient	Original IDLH	Revised IDLH
Naphtha Petroleum, Heavy, Hydrodesulfurised	20,000 mg/m3	Not available

# 8.2 Exposure controls

8.2.1 Appropriate engineering controls:	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk.
8.2.2 Personal protection:	
Eye and face protection:	Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.
Skin protection:	See Hand Protection below.
Hands/feet protection:	Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. rubber. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the alove material

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	cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.
Body protection:	See Other Protection below.
Other protection:	Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). Non sparking safety or conductive footwear should be considered.

#### **Respiratory protection:**

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used.

# 8.2.3. Environmental exposure controls

See Section 12.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Important health, safety and environmental information

Appearance:	Black		
Physical state:	Liquid	Relative density (Water = 1):	0.85-0.9
Odour:	Not available	Partition coefficient n-octanol/water:	Not available
Odour threshold:	Not available	Auto-ignition temperature (°C):	>200
pH (as supplied):	Not available	Decomposition temperature:	Not available
Melting point/freezing point (°C):	Not available	Viscosity (cSt):	>100
Initial boiling point and boiling range (°C):	>150	Molecular weight (g/mol):	Not available
Flash point (°C):	>39	Taste:	Not available
Evaporation rate:	Not available	Explosive properties:	Not available
Flammability:	Flammable	Oxidising properties:	Not available
Upper Explosive Limit (%):	Not available	Surface Tension (dyn/cm or mN/m):	Not available
Lower Explosive Limit (%):	Not available	Volatile Component (%vol):	Not available
Vapour pressure (kPa):	Not available	Gas group:	Not available
Solubility in water:	Immiscible	pH as a solution (1%):	Not available
Vapour density (Air = 1):	Not available	VOC g/L:	<540
Nanoform Solubility	Not available	Nanoform Particle Characteristics	Not available
Particle Size	Not available		

# 9.2 Other information

Not available.

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# **10. STABILITY AND REACTIVITY**

#### 10.1 Reactivity

See Section 7.2.

#### 10.2 Chemical stability

Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.

#### 10.3 Possibility of hazardous reactions

See Section 7.2.

#### 10.4 Conditions to avoid

See Section 7.2.

# 10.5 Incompatible materials

See Section 7.2.

# 10.6 Hazardous decomposition products

See Section 5.3

#### **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

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	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)
Ingestion:	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
	Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small
0	intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat: larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and
	shallow breathing, abdominal swelling, unconsciousness, and convulsions.
	Accidental ingestion of the material may be seriously damaging to the health of the individual; animal experiments indicate that ingestion of less than 40 aram may be fatal
	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.
	Open cuts, abraded or irritated skin should not be exposed to this material.
	injury with harmful effects. Examine the skin prior to the use of the material and ensure that any
	external damage is suitably protected.
	Skin contact with the material may be harmtul; systemic effects may result following absorption. The material may cause moderate inflammation of the skin either following direct contact or after a
Skin contact:	delay of some time. Repeated exposure can cause contact dermatitis which is characterised by
	redness, swelling and blistering.
	absorbed into the body through the skin, but branched species are more likely to.
	The material may cause moderate inflammation of the skin either following direct contact or after a
	delay of some time. Repeated exposure can cause contact dermatitis which is characterised by
	Direct eve contact with petroleum hydrocarbons can be painful, and the corneal epithelium may
	be temporarily damaged. Aromatic species can cause irritation and excessive tear secretion.
	There is evidence that material may produce eye irritation in some persons and produce eye
Fve:	The liquid produces a high level of eve discomfort and is capable of causing pain and severe
_,	conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not
	promptly and adequately treated.
	lhere is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.
	Long-term exposure to the product is not thought to produce chronic effects adverse to the health
	(as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.
	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with
	skin and if swallowed.
	that it contains a substance which can produce severe defects.
	Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis
	tollowing.
Chronic:	contact with skin may result in photosensitisation of skin areas and sunburn on frequent exposure to
	sunlight or ultraviolet radiation.
	Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and angemia, and reduced liver and kidney function
	Skin exposure may result in drying and cracking and redness of the skin.
	Immersion of the hands and forearms in white spirits may quickly result in inflammation of the skin and
	tollicles, workers exposed to white spirits have reported haused and vomiting and one worker has
	from septicaemia.
	There has been concern that this material can cause cancer or mutations, but there is not enough
	data to make an assessment.

# Alumasc Bitumen Primer:

Toxicity	Irritation	
Not available	Not available	

#### Naphtha Petroleum, Heavy, Hydrodesulfurised:

Toxicity	Irritation
Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating <sup>[1]</sup>
Inhalation(Rat) LC50; >1.58 mg/l4h <sup>[1]</sup>	Skin: adverse effect observed (irritating)[1]
Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating)[1]

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#### Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity; 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of Chemical Substances.

	Data demonstrate that during inhalation exposure aromatic hydrocarbons undergo
	substantial partitioning into adipose tissues. Following cessation of exposure, the level of
	aromatic hydrocarbons in body fats rapidly declines. Thus, the aromatic hydrocarbons are
	unlikely to bioaccumulate in the body.
	Ine production of creosotes and coal tars stems from the incomplete combustion of carbon containing materials. Physically, they are usually viscous liquids or semicalide that
	are black or dark brown with a nanothelene-like odour. They have an oily liquid
Alumasc Bitumen Primer:	consistency and range in colour from vellowish-dark areen to brown and laraely contain a
	mixture of polycyclic aromatic hydrocarbons (PAHs) including phenol.
	For "distillates of coal tar" or 'creosotes. Critical Health Effects
	The critical health effects for risk characterisation are systemic long-term effects including
	carcinogenicity, mutagenicity, reproductive toxicity and developmental toxicity. The
	chemicals are also considered to be phototoxic and have the potential to cause skin
	No significant acute toxicological data identified in literature search. For C9 aromatics
	(typically trimethylbenzenes – TMBs)
	Acute toxicity: Animal testing shows that semi-lethal concentrations and doses vary
	amongst this group. The semilethal concentrations for inhalation range from 6000 to 10000
	mg/cubic metre for C9 aromatic naphtha and 18000-24000 mg/cubic metre for 1,2,4- and
	I,3,5-IMB, respectively.
	hydrocarbon solvents are mildly to moderately irritating to the skin minimally irritating to
Naphtha Petroleum,	the eve, and have the potential to irritate the airway and cause depression of breathing
Heavy, Hydrodesulfurised:	rate.
	There is no evidence that it sensitizes skin.
	Repeated dose toxicity: Animal studies show that chronic inhalation toxicity for C9
	aromatic hydrocarbon solvents is slight.
	rol perioleum. This product contains benzene, which can cause acute myeloid leukaemia,
	system. This product contains toluene, and animal studies suggest high concentrations of
	toluene lead to hearing loss. This product contains ethyl benzene and naphthalene, from
	which animal testing shows evidence of tumour formation.
	Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the
	gastrointestinal tract and that the absorption of n-parattins is inversely proportional to the
	Lengths likely to be present in mineral oil p-paraffins may be absorbed to a greater extent
	than iso- or cyclo-paraffins
	The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in
Alumasc Bitumen Primer &	various species.
Naphtha Petroleum,	In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the
Heavy, Hydrodesulfurised:	diet.
	For trimethylpenzenes:
	skin contact. In the workplace, inhalation and skin contact are the most important routes
	of absorption; whole-body toxic effects from skin absorption are unlikely to occur as the
	skin irritation caused by the chemical generally leads to quick removal. The substance is
	fat-soluble and may accumulate in fatty tissues.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	*
Respiratory or Skin Sensitisation	×	STOT - Repeated Exposure	•
Mutagenicity	×	Aspiration Hazard	•

#### Legend:

- > Data either not available or does not fill the criteria for classification.
   > Data available to make classification.

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#### 11.2.1. Endocrine Disruption Properties

Many chemicals may mimic or interfere with the body's hormones, known as the endocrine system. Endocrine disruptors are chemicals that can interfere with endocrine (or hormonal) systems.

Endocrine disruptors interfere with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body. Any system in the body controlled by hormones can be derailed by hormone disruptors. Specifically, endocrine disruptors may be associated with the development of learning disabilities, deformations of the body various cancers and sexual development problems.

Endocrine disrupting chemicals cause adverse effects in animals. However limited scientific information exists on potential health problems in humans. Because people are typically exposed to multiple endocrine disruptors at the same time, assessing public health effects is difficult.

#### 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

#### Alumasc Bitumen Primer:

End point	Test duration (Hr)	Species	Value	Source
Not available	Not available	Not available	Not available	Not available

#### Naphtha Petroleum, Heavy, Hydrodesulfurised:

End point	Test duration (Hr)	Species	Value	Source
EC50(ECx)	72h	Algae or other aquatic plants	391mg/l	2
EC50	72h	Algae or other aquatic plants	391mg/l	2
NOEC(ECx)	504h	Crustacea	0.097mg/l	2
EC50	72h	Algae or other aquatic plants	0.53mg/l	2
EC50	96h	Algae or other aquatic plants	0.58mg/l	2
NOEC(ECx)	720h	Crustacea	0.024mg/l	2
LC50	96h	Fish	0.14mg/l	2
EC50	96h	Algae or other aquatic plants	0.277mg/L	2

#### Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the oxygen transfer between the air and the water Oils of any kind can cause:

- drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility
- lethal effects on fish by coating gill surfaces, preventing respiration
- asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation.

#### For 1,2,4 - Trimethylbenzene:

Half-life (hr) air: 0.48-16; Half-life (hr) H2O surface water: 0.24 -672; Half-life (hr) H2O ground: 336-1344; Half-life (hr) soil: 168-672; Henry's Pa m3 /mol: 385 -627; Bioaccumulation: not significant. 1,2,4-Trimethylbenzene is a volatile organic compound (VOC) substance. Atmospheric Fate: 1,2,4-trimethylbenzene can contribute to the formation of photochemical smog in the presence of other VOCs.

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#### For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization. Terrestrial Fate: BTEX compounds have the potential to move through soil and contaminate ground water, and their vapours are highly flammable and explosive.

#### For petroleum distillates:

#### **Environmental fate:**

When petroleum substances are released into the environment, four major fate processes will take place: dissolution in water, volatilization, biodegradation and adsorption. These processes will cause changes in the composition of these UVCB substances. In the case of spills on land or water surfaces, photodegradation-another fate process-can also be significant. For C9 aromatics (typically trimethylbenzene - TMBs)

Chemicals in this category possess properties indicating a hazard to the environment (acute toxicity for fish, invertebrates, and algae from 1 to 10 mg/L). Category members are readily biodegradable, except 1,3,5-trimethylbenzene (CAS RN 108-67-8). Category members are not expected to be bioaccumulative.

For Xylenes:

log Koc : 2.05-3.08; Koc : 25.4-204; Half-life (hr) air : 0.24-42; Half-life (hr) H2O surface water : 24-672; Half-life (hr) H2O ground : 336-8640; Half-life (hr) soil : 52-672; Henry's Pa m3 /mol : 637-879; Henry's atm m3 /mol - 7.68E-03; BOD 5 if unstated - 1.4,1%; COD - 2.56,13% ThOD - 3.125 : BCF : 23; log BCF : 1.17-2.41.

Environmental Fate: Most xylenes released to the environment will occur in the atmosphere and volatilisation is the dominant environmental fate process. Soil - Xylenes are expected to have moderate mobility in soil evaporating rapidly from soil surfaces.

DO NOT discharge into sewer or waterways.

#### 12.2 Persistence and degradability

No data available for all ingredients.

#### 12.3 Bioaccumulation potential

No data available for all ingredients.

#### 12.4 Mobility in soil

No data available for all ingredients.

#### 12.5 Results of PBT and vPvB assessment

	P	В	T	
Relevant available data	Not available	Not available	Not available	
PBT	×	×	×	
vPvB	×	×	X	
PBT Criteria fulfilled?			No	
vPvB			No	

#### 12.6 Endocrine Disruption Properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans. Endocrine disruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break down in the environment. That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include reproductive abnormalities, immune dysfunction and skeletal deformities.

#### 12.7. Other adverse effects

Not available.

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# 13. DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods

Product/packaging disposal:	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases, disposal to sewer may be subject to local laws and regulations and these should be considered first. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by burial in a land-fill specifically licensed to accept chemical and/or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).
Waste treatment options:	Not available.
Sewage disposal options:	Not available.

# 14. TRANSPORT INFORMATION

#### Labels required:



Marine Pollutant:

# Hazchem: 2W.

# Land transport (ADR):

14.1 UN number	1999		
14.2 UN proper shipping name	TARS, LIQUIDS		
14.3 Transport bazard class(oc)	Class:	3	
14.3 Italispon hazara ciass(es)	Subrisk:	N/A	
14.4 Packing group			
14.5 Environmental hazard	Environmentally hazardous		
	Hazard identification (Kemler):	30	
	Classification code:	F1	
14 (Special processions for user	Hazard label:	3	
14.8 Special precautions for user	Special provisions:	N/A	
	Limited quantity:	5L	
	Tunnel restriction code:	3 (D/E)	

# Air transport (ICAO-IATA/DGR):

14.1 UN number	1999		
14.2 UN proper shipping name	TARS, LIQUIDS, including road asphalt and oils, bitumens of	and cutbacks	
14.3 Transport hazard class(es)	ICAO/IATA class: 3		
	ICAO/IATA subrisk:	N/A	
	ERG code:	3L	
14.4 Packing group			
14.5 Environmental hazard	Environmentally hazardous		
14.6 Special precautions for user	Special provisions:	A3	
	Cargo only packing instruction:	366	
	Cargo only maximum qty/pack:	220L	
	Passenger and cargo packing instruction:	355	
	Passenger and cargo maximum qty/pack:	60L	
	Passenger and cargo limited aty packing instructions:	Y344	
	Passenger and cargo limited maximum qty/pack:	10L	

Our company policy is one of continuous research and development; we therefore reserve the right to amend content herein without prior notice.

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Sea transport (IMDG-Code/GGVSee)	•		
14.1 UN number	1999		
14.2 UN proper shipping name	TARS, LIQUIDS, including road oils and cu	Itback bitumens	
14.3 Transport hazard class(es)	IMDG class:	3	
	IMDG subrisk:	N/A	
14.4 Packing group			
14.5 Environmental hazard	Marine pollutant		
14.6 Special precautions for user	EMS number:	F-E, S-E	
	Special provisions:	955	
	Limited quantities:	5L	
Inland waterways transport (ADN):			
14.1 UN number	1999		
14.2 UN proper shipping name	TARS, LIQUID, including road asphalt and including road oils, and cutback bitume viscous according to 2.2.3.1.4) (vapour p TARS, LIQUID, including road oils, and cut 23°C and viscous according to 2.2.3.1.4) kPa)	oils, bitumen and cut backs; TARS, LIQUID, ens (having a flashpoint below 23°C and pressure at 50°C not more than 110 kPa); back bitumens (having a flashpoint below I (vapour pressure at 50°C more than 110	
14.3 Transport hazard class(es)	Class:	3	
	Subrisk:	N/A	
14.4 Packing group			
14.5 Environmental hazard	Environmentally hazardous		
14.6 Special precautions for user	Classification code:	F1	
	Special provisions:	N/A	
	Limited quantity:	5L	
	Equipment required:	PP, EX, A	
	Fire cones numbers:	0	

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

Not applicable.

# 14.8. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product Name	Group
Naphtha Petroleum, Heavy, Hydrodesulfurised	Not applicable

#### 14.9. Transport in bulk in accordance with the ICG Code

Product Name	Ship Type
Naphtha Petroleum, Heavy, Hydrodesulfurised	Not applicable

15. REGULATORY INFORMATION

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

# Naphtha Petroleum, Heavy, Hydrodesulfurised is found on the following regulatory lists:

Chemical Footprint Project - Chemicals of High Concern List	Europe EC Inventory
EU REACH Regulation (EC) No 1907/2006 - Annex XVII -	European Union - European Inventory of Existing
Restrictions on the manufacture, placing on the market and	Commercial Chemical Substances (EINECS)
use of certain dangerous substances, mixtures and articles	
EU REACH Regulation (EC) No 1907/2006 - Annex XVII	European Union (EU) Regulation (EC) No 1272/2008 on
(Appendix 2) Carcinogens: Category 1 B	Classification, Labelling and Packaging of Substances and
	Mixtures - Annex VI
EU REACH Regulation (EC) No 1907/2006 - Annex XVII	International Agency for Research on Cancer (IARC) -
(Appendix 4) Germ cell mutagens: Category 1 B	Agents Classified by the IARC Monographs

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

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# 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### ECHA SUMMARY

Ingredient		CAS number		Index No ECHA [		Dossier	
Naphtha Petroleum, Heavy, Hydrodesulfurised 64742-82-1. 649-330-00-2		649-330-00-2   649-345-0	)0-4	Not av	ailable		
Harmonisation (C&L Inventory)	Harmonisation (C&L Inventory) Hazard Class and Category Code(s)		Picto Signo Code	grams al Word e(s)	Hazard Statement Code(s)		
1	Flam. Liq. 3; Asp. Tox. 1; STOT SE 3; Aquatic Chronic 2		GHSC GHSC GHSC	)2; )9; )8; Dgr	H226; H304; H336; H411		
2	Flam. Liq. 3; Asp. Tox. 1; STOT SE 3; Aquatic Chronic 2; STOT SE 3; STOT RE 1			GHSC GHSC GHSC	)2; )9; )8; Dgr	H226; H304; H336; H411; H372	
1	Asp.	Tox. 1; Muta. 1B; Carc. 1B	В		GHSC	)8; Dgr	H304; H340; H350
2	Asp. Tox. 1; Aquatic Chronic 2; STOT RE 1; Flam. Liq. 1; Skin Irrit. 2; STOT SE 3; Repr. 2; Repr. 2; Repr. 2; STOT SE 3; STOT SE 3; STOT RE 1; STOT RE 1; STOT SE 3; STOT SE 3; STOT SE 3; STOT SE 3; STOT RE 1; STOT SE 3; STOT SE 3; Aquatic Chronic 1; STOT SE 3; Eye Irrit. 2; STOT SE 3; STOT RE 1; STOT SE 3; STOT SE 3; STOT SE 3; Repr. 2; STOT RE 1; STOT SE 3; STOT RE 1; STOT SE 3; STOT SE 3; Repr. 2; STOT RE 1; STOT SE 3; STOT RE 1; STOT SE 3; STOT SE 3; STOT SE 3; STOT RE 1; STOT SE 3; STOT SE 3; STOT SE 3; STOT SE 3; STOT RE 1; STOT SE 3; STOT SE 3; STOT SE 3; STOT SE 3; STOT SE 3; STOT SE 3; STOT SE 3; STOT SE 3; STOT RE 1; STOT SE 3; STOT		GHS0 GHS0 GHS0	)2; )9; )8; Dgr	H304; H336; H411; H340; H350; H372; H224; H315; H361; H335; H319; H360		
1	Asp. Tox. 1; Muta. 1B; Carc. 1B		GHSC	)8; Dgr	H304; H340; H350		
2	Asp. Tox. 1; Skin Irrit. 2; STOT RE 1; Eye Irrit. 2; STOT RE 1; STOT RE 1; STOT RE 1; STOT SE 3; STOT RE 1; STOT RE 1; STOT SE 3; STOT SE 3; STOT SE 3; Flam. Liq. 2; Acute Tox. 4; STOT SE 3; STOT RE 1; STOT SE 3; Acute Tox. 3; STOT SE 3; STOT SE 3; STOT RE 1; STOT RE 1; STOT RE 1; Aquatic Acute 1; STOT SE 3; STOT SE 3; STOT RE 1; STOT SE 3; STOT SE 3; STOT SE 3; Aquatic Chronic 1; STOT RE 1; STOT SE 3		GHS0 GHS0 GHS0 GHS0	)2; )9; )8; Dgr; )6	H304; H315; H372; H340; H350; H335; H336; H225; H302; H331; H400; H318; H410		
Harmonisation Code 1	= The I	most prevalent classifica	tion. Har	monisation Code 2 = Th	ne mos	t severe	classification.

National Inventory	Status
Australia – AICS:	Yes
Canada – DSL:	Yes
Canada – NDSL:	No (Naphtha Petroleum, Heavy, Hydrodesulfurised)
China – IECSC:	Yes
Europe - EINEC / ELINCS / NLP:	Yes
Japan – ENCS:	Yes
Korea – KECI:	Yes
New Zealand – NZloC:	Yes
Philippines – PICCS:	Yes
USA – TSCA:	Yes
Taiwan – TCSI:	Yes
Mexico – INSQ:	Yes
Vietnam – NCI:	Yes
Russia – ARIPS:	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory. No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets).

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# 16. OTHER INFORMATION

#### Full text risk and hazard codes:

H224 Extremely flammable liquid and vapour. H225 Highly flammable liquid and vapour. H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

#### SDS version summary:

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Version	Date of Update	Section Updated
4.0	02/10/2023	Template Change

#### Other information:

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

#### For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166:	Personal eye-protection.
EN 340:	Protective clothing.
EN 374:	Protective gloves against chemicals and micro-organisms.
EN 13832:	Footwear protecting against chemicals.
EN 133:	Respiratory protective devices.

#### Definitions and abbreviations:

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard **OSF:** Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value **BCF: BioConcentration Factors** BEI: Biological Exposure Index AllC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIOC: New Zealand Inventory of Chemicals

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PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory. INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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