Revision: 27/03/2023 Version: 2.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Vitol V 160-220

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier Product name Product description Trade Name Product code CAS No. EC No. REACH Registration No.

V 160-220 Bitumen V 160-220 BIT160 8052-42-4 232-490-9 01-2119480172-44-xxxx

Anything other than the above.

+44 (0) 1235 239 670, 24/7

All official European languages.

Bitumen for road construction and/or industrial application.

Solid: Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat. Contact with hot liquid causes

- 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses advised against
- **1.3 Details of the supplier of the safety data sheet** Company Identification

Place des Bergues 3 1201 Geneva Switzerland +31 10 498 7200 +31 10 452 9545 xreach@vitol.com

Vitol SA

1.4 Emergency Telephone Number Emergency Phone No. Language(s) spoken:

E-mail (competent person)

Telephone

Fax

SECTION 2: HAZARDS IDENTIFICATION

2.1 2.1.1	Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)	Not classified as hazardous for supply/use.
2.2	Label elements Product description	According to Regulation (EC) No. 1272/2008 (CLP) V 160-220
	Hazard Pictogram(s)	None assigned
	Signal Word(s)	None assigned
	Hazard Statement(s)	None assigned
	Precautionary Statement(s)	None assigned
2.3	Other hazards	Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

SUBSTANCE	CAS No.	EC No.	%W/W

skinburns.

Revision: 27/03/2023 Version: 2.0

S

5.3

Vitol

ACCO	RDING TO EC-REGULATIONS 1907/2006 (REACH), 127	2/2008 (CLP) & 2	020/878	V 160-22
-			1	
	Asphalt 805	2-42-4	232-490-9	100
SECTI	ON 4: FIRST AID MEASURES			
4.1	Description of first aid measures			
	Self-protection of the first aider	If it is suspected that fumes are still present, the		t, the responder should wear an
		appropriate ma	ask or self-contained breathing a	apparatus. It may be dangerous to
	Inholation	the person pro	viding aid to give mouth-to-mout	th resuscitation.
	Innalation	comfortable for	breathing. If irritation develops	and persists, get medical attention.
	Skin contact	Remove clothi	ng and wash thoroughly before	use. Remove clothing and wash
		thoroughly be	fore use. If skin irritation	or rash occurs: Get medical
		advice/attentio	n.	
	Eye contact	If substance ha	as got into the eyes, immediately	y wash out with plenty of water for
	Indestion	Do NOT induce	vomiting Wash out mouth with	ersists, get medical attention. water and give 200-300 ml (balf a
	ingestion	pint) of water to	o drink. If symptoms develop, ob	ptain medical attention.
4.2	Most important symptoms and effects, both acute	Solid: Handling	of this material may generate a	dust which can cause mechanical
	and delayed	irritation of the	eyes, skin nose and throat.	
4.3	Indication of any immediate medical attention and	Unlikely to be	equired but if necessary treat sy	ymptomatically.
	special treatment needed			
	Hydrogen sulphide	Inhalation: Rer	nove to fresh air immediately. Ap	oply artificial respiration if breathing
	l let (exelte execute et	has ceased or	shows signs of failing. Obtain in	nmediate medical attention.
	Hot/molten product	Skin contact: Ir	i the event of burns from the mole	ten liquia, do not attempt to remove
		burn In the e	nal. Cool allected area quickly	with adhesion of the bitumon the
		bum. In the C	ase of a circuillefellial built v	with autresion of the bitumen, the

Eye contact: If hot product is splashed into the eye, it should be cooled immediately to dissipate heat, under cold running water. Obtain prompt consultation, preferably from an ophthalmologist.

adhering material should be split to prevent a tourniquet effect as it cools.

SECTION 5: FIREFIGHTING MEASURES

Advice for firefighters

- 5.1 Extinguishing media Suitable extinguishing media Extinguish with sand or dry chemical. Foam, Carbon dioxide, Water fog or dry powder. Unsuitable extinguishing media Do not use water jet. Direct water jet may spread the fire. 5.2 Special hazards arising from the substance or Decomposes in a fire giving off toxic fumes: A mixture of solid and liquid mixture particulates and gases including unidentified organic and inorganic compounds. Carbon monoxide, Carbon dioxide, Hydrogen sulphide, Sulphur oxides, Sulphuric acid.
 - Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Stop leak if safe to do so. Ensure suitable personal protection during removal of spillages. Avoid all contact. Keep upwind. Eliminate sources of ignition. Ensure suitable personal protection during removal of spillages. Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank

Revision: 27/03/2023 Version: 2.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

		waste and waste water, and unintentional releases should be made to help
		determine controls appropriate to local circumstances.
	Large spillages:	Take care that activity is executed only by specialists or authorised personnel.
		Personal protection equipment: full body dermal protection.
	Hot/molten product:	Risk of burns from molten product. Let hot material cool naturally. If necessary,
		cautiously use water fog to help the cooling. Do not direct jets of foam or water on
		the spilled molten product, as this may cause splattering.
6.2	Environmental precautions	Avoid release to the environment. Do not allow to enter drains, sewers or
		watercourses. Spillages or uncontrolled discharges into watercourses must be
		alerted to the Environment Agency or other appropriate regulatory body.
6.3	Methods and material for containment and cleaning	Sweep up and shovel into waste drums or plastic bags. Transfer to a lidded
	up	container for disposal or recovery. Ventilate the area and wash spill site after
		material pick-up is complete.
	Hot/molten product	Allow product to cool/solidify and pick up as a solid.
6.4	Reference to other sections	See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling H2S Warning	Use only outdoors or in a well-ventilated area. Avoid all contact. Do not ingest. Use personal protective equipment as required. See Section: 8. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned. Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances. These controls may include: Segregation of areas, Access only to authorised persons. Permit to work systems. Confined space working procedures. Area H2S
7.2	Conditions for safe storage, including any incompatibilities	alarms, Personal H2S alarms, Personal escape sets, H2S awareness training. Ground/bond container and receiving equipment. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep only in the original container. Keep containers properly sealed when not in use. Protect from sunlight. Containers of this material may be hazardous when empty since they retain product residue. Deposits (carbonaceous materials and iron sulphides) can develop on the internal walls and roofs of tanks in case of long term storage. These deposits may be pyrophoric and self-ignite in contact with the air. See Also Section: 7.1: H2S Warning
7.3	Storage temperature Storage measures Incompatible materials Specific end use(s)	Keep cool. Protect from sunlight. Keep only in the original container. Keep away from oxidising agents. See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Asphalt, petroleum fumes	8052-42-4	-	5	-	10	-

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

Ireland

SUBSTANCE	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		Notes
		ppm	mg/m³	ppm	mg/m³	
Asphalt (Bitumen), petroleum fumes, (inhalable fraction)	8052-42-4	-	0.5	-	-	-

Source: 2021 Code of Practice for Safety, Health and Welfare at Work (Chemical Agents) Regulation (2001 - 2021) and the Safety, Health and

Revision: 27/03/2023 Version: 2.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Vitol V 160-220

Welfare at Work (Carcinogens) Regulations (2001 – 2019); Health and Safety Authority

8.1.2	Biological limit value	Not established
8.1.3	PNECs and DNELs	Not established
8.2 8.2.1	Exposure controls Appropriate engineering controls	Ensure adequate ventilation to remove vapours, fumes, dust etc. Guarantee that the eye flushing systems and safety showers are located close to the working place.

8.2.2 Individual protection measures, such as personal protective equipment

Keep good industrial hygiene. Wash contaminated clothing before reuse.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1

Information on basic physical and chemical propert	ties
Physical state	Ambient: Solid
	Hot/molten product: Viscous liquid
Colour	Black / Brown
Odour	Not established
Melting point/freezing point	Softening Point (°C): 30 – 128 (EN 1427)
Boiling point or initial boiling point and boiling range	> 320 °C
Flammability	Not flammable
Lower and upper explosion limit	Not established
Flash point	> 220 °C (COC) (EN ISO 2592)
Auto-ignition temperature	> 400 °C
Decomposition temperature	Not established

Revision: 27/03/2023 Version: 2.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

pH Kinematic viscosity Solubility

Partition coefficient: n-octanol/water (log value) Vapour pressure Density and/or relative density Relative vapour density Particle characteristics

9.2 Other information

None known

Not applicable

Insoluble in water. Toluene: 99% (EN 12592)

< 0.1 kPa at 20°C

0.925 - 1.07 at 15°C

Not established

Not established

Not established

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity
- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid
- 10.5 Incompatible materials
- 10.6 Hazardous decomposition products

Stable under normal conditions

> 135 mm²/s at 135°C (EN 12595)

Stable under normal conditions

Hazardous polymerisation will not occur.

Keep away from heat, sources of ignition and direct sunlight.

Keep away from oxidising agents. Strong acids, Alkalis, Nitrates. Avoid friction, sparks, or other means of ignition.

Product may release Hydrogen Sulphide. Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Hydrocarbons. A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on hazard classes as defined in	
	Regulation (EC) No 1272/2008	
	Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met.
		LD50 (oral) mg/kg: > 5000 mg/kg bw/day (OECD 401) (Unnamed publication, 1982)
	Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met.
		LC50 (inhalation) > 94.4 mg/m ³ (rat) (OECD 403) (Unnamed publication, 2000)
	Acute toxicity - Skin contact	Based upon the available data, the classification criteria are not met.
		LD50 (dermal) mg/kg: > 2000 mg/kg bw/day (OECD 402) (Unnamed publication,
		1982)
	Skin corrosion/irritation	Based upon the available data, the classification criteria are not met.
	Operious and demonstration	Non-Irritant (rabbit) (OECD 404) (Onnamed publication, 1982)
	Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
	- • · · · · · · ·	Non-irritant (rabbit) (OECD 405) (Unnamed publication, 1982)
	Respiratory or skin sensitisation	Based upon the available data, the classification criteria are not met.
		Sensitisation (guinea pig) – Negative (OECD 406) (Unnamed publication, 1984)
	Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
		There is no evidence of mutagenic potential. (ASTM Standard Method E 1687-
		04) (Kriech et al., 2007)
	Carcinogenicity	Based upon the available data, the classification criteria are not met.
		No evidence of carcinogenicity. (OECD 453) (Unnamed publication, 2011)
	Reproductive toxicity	Based upon the available data, the classification criteria are not met.
		No evidence of reproductive effects. (US EPA OPPTS 870.3800 and OECD
		416) (Unnamed publication, 2011)
	STOT - Single Exposure	Based upon the available data, the classification criteria are not met.
	STOT - Repeated Exposure	Based upon the available data, the classification criteria are not met.
	Aspiration hazard	Based upon the available data, the classification criteria are not met.
11.2	Information on other hazards	
11.2.1	Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting
		properties with respect to humans as no components meets the criteria.
11.2.2	Other information	None known





V 160-220

Revision: 27/03/2023 Version: 2.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878



SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity
- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- 12.5 Results of PBT and vPvB assessment
- 12.6 Endocrine disrupting properties
- 12.7 Other adverse effects

The product is poorly biodegradable. (CONCAWE 2013) No data available The product is predicted to have low mobility in soil. Insoluble in water. Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance. (CONCAWE 2013) This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria. None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Containers of this material may be hazardous when empty since they retain product residue. Containers must not be punctured or destroyed by burning, even when empty. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

SECTION 14: TRANSPORT INFORMATION

14.1 UN HUMBELOFID HUMBE	14.1	UN	number	or ID	numbe
--------------------------	------	----	--------	-------	-------

14.2 UN proper shipping name

14.3 Transport hazard class(es)

- 14.4 Packing group
- 14.5 Environmental hazards
- 14.6 Special precautions for user
- 14.7 Maritime transport in bulk according to IMO instruments
- 14.8 Additional information

ELEVATED TEMPERATURE LIQUID, N.O.S (Bitumen) 9 III Not classified See Section: 2 No information available.

ADR/RID

3257

Not classified. Non-toxic to aquatic life. Estimated LC50 (fish) mg/l: > 1000

ADR HIN: 99 Tunnel restriction code: 3 (D) Limited Quantity: 0 ELEVATED TEMPERATURE LIQUID, N.O.S (Bitumen) 9 III Not classified as a Marine Pollutant.

No information available.

EmS: F-A, S-P Limited Quantity: 0

IMDG/ADN

3257

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental
	regulations/legislation specific for the substance or
	mixture
15.1.1	EU regulations
	Authorisations and/or restrictions on use
15.1.2	National regulations

Germany 15.2 Chemical Safety Assessment None assigned

Water hazard class: nwg A chemical safety assessment is not required under REACH.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References:

Existing Safety Data Sheet (SDS) Existing ECHA registration for Asphalt (CAS No. 8052-42-4) CONCAWE 2013 Chemical Safety Report

Revision: 27/03/2023 Version: 2.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Literature References:

 Kriech, A. J., Osborn, L. V., Wissel, H. L., Redman, A. P., Smith, L. A., & Dobbs, T. E. (2007). Generation of Bitumen Fumes Using Two Fume Generation Protocols and Comparison to Worker Industrial Hygiene Exposures. Journal of Occupational and Environmental Hygiene, 4(sup1), 6–19. https://doi.org/10.1080/15459620701358102

O Vitol

V 160-220

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Legend	
ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	ADN: European Agreement on the International Transport of Dangerous Goods by Inland Waterways
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EC	European Community
EU	European Union
HSE	Health and Safety Executive
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LC50	Lethal Concentration at which 50% of the population is killed
LD50	Lethal Dose at which 50% of the population is killed
LTEL	Long term exposure limit
MARPOL	The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
UN	United Nations
US EPA	United States Environmental Protection Agency
vPvB	vPvB: very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Vitol SA gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Vitol SA accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Annex to the extended Safety Data Sheet (eSDS)

Not applicable