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

# **Vitol** V 70-100

#### 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 70-100 Bitumen V 70-100 BIT50 8052-42-4 232-490-9 01-2119480172-44-xxxx

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Bitumen for road construction Uses advised against Anything other than the above.

**1.3 Details of the supplier of the safety data sheet** Company Identification

> Telephone Fax E-mail (competent person)

1.4

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

Vitol SA

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

+44 (0) 1235 239 670, 24/7 All official European languages.

#### 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 70-100
	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 inhalatior risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases

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. 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 skinburns.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

SUBSTANCE	CAS No.	EC No.	%W/W	

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Asphalt
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8052-42-4

100

#### **SECTION 4: FIRST AID MEASURES**



4.1 Description of first aid measures Self-protection of the first aider

Inhalation

Skin contact

Eye contact

Ingestion

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed Hydrogen sulphide

Hot/molten product

If it is suspected that fumes are still present, the responder should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If irritation develops and persists, get medical attention. Remove clothing and wash thoroughly before use. Remove clothing and wash thoroughly before use. If skin irritation or rash occurs: Get medical advice/attention.

If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. If irritation develops and persists, get medical attention.

Do NOT induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. If symptoms develop, obtain medical attention.

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

Unlikely to be required but if necessary treat symptomatically.

232-490-9

Inhalation: Remove to fresh air immediately. Apply artificial respiration if breathing has ceased or shows signs of failing. Obtain immediate medical attention. Skin contact: In the event of burns from the molten liquid, do not attempt to remove adhering material. Cool affected area quickly with water. Do not put ice on the burn. In the case of a circumferential burn with adhesion of the bitumen, the adhering material should be split to prevent a tourniquet effect as it cools.

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.

#### SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media Extinguish with sand or dry chemical. Foam, Carbon dioxide, Water fog or dry Suitable extinguishing media 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
- 5.3 Advice for firefighters

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

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		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	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.
	H2S Warning	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 alarms, Personal H2S alarms, Personal escape sets, H2S awareness training.
7.2	Conditions for safe storage, including any incompatibilities	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
	Storage temperature	Keep cool. Protect from sunlight.
	Storage measures	Keep only in the original container.
	Incompatible materials	Keep away from oxidising agents.
7.3	Specific end use(s)	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

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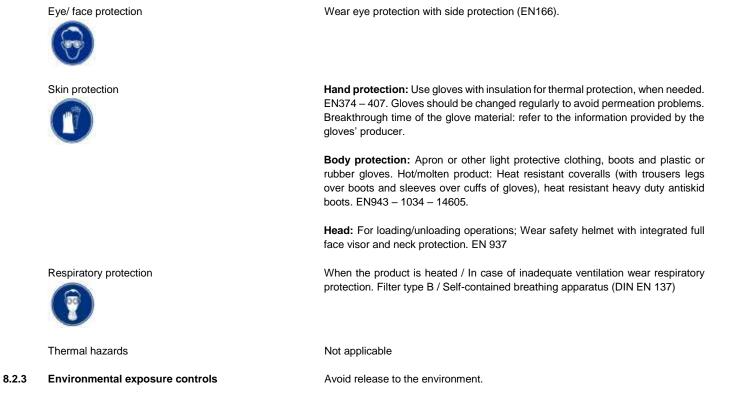
Welfare at Work (Carcinogens) Regulations (2001 – 2019); Health and Safety Authority

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

ties
Ambient: Solid
Hot/molten product: Viscous liquid
Black / Brown
Not established
Softening Point (°C): 30 – 128 (EN 1427)
> 320 °C
Not flammable
Not established
> 230°C (COC) (EN ISO 2592)
> 400 °C
Not established

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pH Kinematic viscosity Solubility

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

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

9.2

- 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

> 230 mm<sup>2</sup>/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 <sup>3</sup> (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.		
	Skiir corrosion/irritation	Non-irritant (rabbit) (OECD 404) (Unnamed publication, 1982)		
	Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.		
	conous eye damage/initiation	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		



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#### 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	number	or ID	) number
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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.

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

ADR/RID

3257

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

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#### 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

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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.

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#### Annex to the extended Safety Data Sheet (eSDS)

Not applicable