

Safety Data Sheet

according to Regulation (EC) No. 2015/830 (REACH) Date of issue: 03/10/2002 Revision date: 06/08/2015

Use as a fuel

Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1. Product identifier			
Chemical type	: Substance		
Name	: Construction Industry Bitumens		
Trade name	: Construction Industry Bitumens		
EC no	: 265-196-4		
CAS No	: 64742-93-4		
REACH registration No.	: 01-2119498270-36-0034		
Local code	: MOL_1021_001;MOL_1021_002;MOL_1021_003;MOL_1021_004;MOL_1021_005;MOL_1021 _006;MOL_1022_002;MOL_1022_01;MOL_1022_01;MOL_1023_004,MOL_1023_005		
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Main use category	: Industrial use, Professional use, Consumer use		
Industrial/Professional use spec	: Distribution of substance Formulation & (re)packing of substances and mixtures Lubricants Manufacture of substance Rubber production and processing		

Road and construction applications

Use as an intermediate Uses in Coatings

Use in Oil and Gas field drilling and production operations

### 1.2.2. Uses advised against

No relevant data available

### 1.3. Details of the supplier of the safety data sheet

Manufacturer: MOL Hungarian Oil and Gas Public Limited Company, Refining Address: 2443 Százhalombatta, POB.1. Telephone: +36-23-552-511, Fax:+36-23-553-122 Distributor: MOL Hungarian Oil and Gas Public Limited Company

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Address: 1117 Budapest, Október huszonharmadika utca 18.

Telephone, fax.: +36-1-209-0000

The competent person responsible for Safety Data Sheet: sds@mol.hu

### 1.4. Emergency telephone number

Emergency number

Country	Organisation/Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital, Guy's & St Thomas' Hospital Trust	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Wolfson Unit	Penarth CF64 2XX Cardiff	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
United Kingdom	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh, Centre Hospitalier Universitaire Bab el Oued	51 Little France Crescent EH16 4SA Edinburgh	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Centre Hospitalier Universitaire de Constantine	Avonley Road SE14 5ER London	0870 243 2241
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)

### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

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#### 2.1.2. Adverse physicochemical, human health and environmental effects

## No relevant data available

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS] 2.2.1.

No labelling applicable

#### Other hazards 2.3.

No relevant data available

### SECTION 3: Composition/information on ingredients

Substance         Product identifier         % (w/w)         Classification according to Regulation (EC) No				
	CAS No	EC no	Concentration (range)	1272/2008 [CLP/GHS]
Construction Industry Bitumens	64742-93-4	265-196-4	100	Not classified

Full text of H- and EUH-phrases: see section 16

#### **Mixture** 3.2.

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Contact with hot product may cause severe thermal burns
-	Aspiration : not applicable due to the physical state of oxidized bitumen.
First-aid measures after inhalation	: In case of symptoms arising from inhalation of fumes or oil mists produced at high temperatures
	Remove casualty to a quiet and well ventilated place if safe to do so
	If casualty is unconscious and:
	Not breathing
	Ensure that there is no obstruction to breathing and give artificial respiration by trained personnel
	If necessary, give external cardiac massage and obtain medical advice
	Breathing
	Place in the recovery position
	Administer oxygen if necessary
	Obtain medical assistance if breathing remains difficult
	Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures
	Remove casualty to fresh air as quickly as possible
	Immediately begin artificial respiration if breathing has ceased
	Provision of oxygen may help
	Obtain medical advice for further treatment.
First-aid measures after skin contact	: In the event of accidental skin contact with hot product, the injured part should be immediately plunged under cold running water for at least 10 minutes
	No attempt must be made to remove the bitumen adherent to the skin at the worksite
	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
	Send patient for specialist care
	For minor thermal burns, cool the burn
	Hold the burned area under cold running water for at least five minutes, or until the pain subsides
	Body hypothermia must be avoided
	Do not put ice on the burn
	Remove non-sticking garments carefully
	DO NOT attempt to remove portions of clothing glued to burnt skin but cut round them
	Seek medical attention in all cases of serious burns.

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First-	aid measures after eye contact	: If hot product is splashed into the eye, it should be cooled down immediately to dissipate heat, under cold running water
		Immediately obtain specialist medical assessment and treatment for the casualty
		In the event of eye contact with cold product, rinse cautiously with water for several minutes
		Remove contact lenses, if present and easy to do so
		Continue rinsing
		If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.
First-	aid measures after ingestion	: Do not induce vomiting
		Ask for medical advice.
4.2.	Most important symptoms and effect	s, both acute and delayed
Symp	toms/injuries after inhalation	: irritation of the respiratory tract due to excess fume, mists or vapour exposure.
Symp	otoms/injuries after skin contact	: Contact with hot/molten product will cause severe burns.
Symp	otoms/injuries after eye contact	: minimal redness and irritation
		Contact with hot/molten product will cause severe burns.
Symp	otoms/injuries after ingestion	: few or no symptoms expected
		If any, nausea and diarrhoea might occur.

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

Never use gasoline, kerosene or other solvents for washing of contaminated skin.

SECTION 5: Firefighting measure	25
5.1. Extinguishing media	
Suitable extinguishing media	: Foam (trained personnel only). Water fog (trained personnel only). Dry chemical powder. Carbon dioxide. Other inert gases (subject to regulations). Sand or earth.
Unsuitable extinguishing media	: Do not use direct water jets on the burning product;. they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.
5.2. Special hazards arising from the su	ubstance or mixture
Fire hazard	: The burning material acquires a dark red-black colour. The flames generated by the burning product are short, dark blue colored at night and invisible in the daylight, with the exception of the fume and the heat.
Explosion hazard	: No direct explosion hazard.
Reactivity	: Contact of hot product with water will result in a violent expansion as the water turns to steam. This may cause splashing of hot product, or damage to, or complete loss of the tank roof.
General measures	: If not done in a proper way this could cause a fire.
5.3. Advice for firefighters	
Firefighting instructions	: Though other forms of exthinguishing agent may be used, they are considered less effective fo deep seated and smouldering fires.
Protection during firefighting	In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Other information	Respiratory problems or nausea by excessive exposure to hot product fumes. Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide. H2S, SOx (sulfur oxides) or sulfuric acid. unidentified organic and inorganic compounds.

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SECTION 6: Accidental r	release measures		
6.1. Personal precautions, pr	Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency pers	sonnel		
Protective equipment	: Small spillages: normal antistatic working clothes are usually adequate		
	Large spillages: full body suit of chemically resistant and thermal resistant material should be used		
	Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons		
	gloves made of PVA are not water-resistant, and are not suitable for emergency use		
	If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated		
	Work helmet with neck cloth		
	Antistatic non-skid safety shoes or boots		
	if necessary heat-resistant		
	Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated		
	Respiratory protection:		
	a half or full-face respirator with filter(s) for organic vapours/H2S, or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
Emergency procedures	: Stop or contain leak at the source, if safe to do so		
	Avoid direct contact with released material		
	Stay upwind		
	In case of large spillages, alert occupants in downwind areas		
	Keep non-involved personnel away from the area of spillage. Alert emergency personnel		
	Except in case of small spillages,		
	The feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency		
	Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares		
	If required, notify relevant authorities according to all applicable regulations		
	If necessary dike the product with dry earth, sand or similar non-combustible materials		
	When inside buildings or confined spaces, ensure adequate ventilation		
	Let molten material cool naturally		
	If necessary, cautiously use water fog to help the cooling		
	Do not play direct jets of foam or water on the spilled molten product, as this may cause splattering.		
6.1.2. For emergency responde	ers		
Emergency procedures	: Leaks and spillages will consist of molten hot material with risk of severe burns		
	recommended measures are based on the most likely spillage scenarios for this material.		

### 6.2. Environmental precautions

Leaks and spillages will consist of molten hot material with risk of severe burns

prevent product from entering sewers, rivers or other bodies of water

solidified product may clog drains and sewers

Collect free product with suitable mechanical means

Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal

In case of spillage in the water,

the product will cool down rapidly and become solid

The solid product is denser than water and will slowly sink to the bottom, and usually no intervention will be feasible

Transfer recovered product and other materials to suitable tanks or containers and store/dispose according to relevant regulations If possible, contain the product.

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6.3. Methods and material for containment	and cleaning up
For containment :	recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions
	For this reason, local experts should be consulted when necessary
	Local regulations may also prescribe or limit actions to be taken
	This situation is especially relevant for those operations which involve direct exposure to the vapours in the tank
	Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations
	In all these circumstances, however, the correct actions should be assessed on a case-by-case basis.
Methods for cleaning up :	Take up mechanically.
Other information :	the product will cool down rapidly and become solid.
6.4. Reference to other sections	

Contaminated material should be disposed of as hazardous waste according to chapter 13 See also item 8 (personal protective equipment) and 13 (disposal).

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Ensure that all relevant regulations regarding handling and storage facilities of flammable products are followed. A specific assessment of inhalation risks from the presence of H2S in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases must be made to help determine controls appropriate to local circumstances. Avoid contact with the hot product. Avoid contact of hot bitumen products with water. Risk of splashing of hot material. Ground/bond containers, tanks and transfer/receiving equipment. Do not breathe fumes from hot product. Use adequate personal protective equipment as required. For more information regarding protective equipment and operational conditions see Exposure scenarios. Ensure that proper housekeeping measures are in place. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Keep away from food and beverages. Do not eat, drink or smoke when using this product. Wash the hands thoroughly after handling. Change contaminated clothes at the end of working shift.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures	: Before entering storage tanks and commencing any operation in a confined area, check the atmosphere for oxygen content, hydrogen sulphide (H2S) and flammability. Use adequate personal protective equipment as required. Empty containers may contain flammable product residues. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned. Hot product must never be filled into containers without first checking that the container is completely dry.
Storage conditions	: Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.
Storage area	Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. 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. Store separately from oxidising agents.
Special rules on packaging	If the product is supplied in containers: Keep only in the original container or in a suitable container for this kind of product.
Packaging materials	Self-heating leading to auto ignition at the surfaces of porous or fibrous materials impregnated with oils or bitumen, can occur at temperatures as low as 100°C. Oil and bitumen contamination of thermal insulation materials and the accumulation of oily rags or similar material near hot surfaces, should therefore be avoided, and lagging should be replaced where necessary by a non-absorbent type of insulation. Recommended materials: For containers, or
	container linings use materials specifically approved for use with this product. most synthetic materials are unsuitable for containers or container linings, due to low heat resistance.

#### Specific end use(s) 7.3.

Site documentation to support safe handling arrangements including the selection of engineering, administrative and personal protective equipment controls in accordance with risk-based management systems is available at each manufacturing site.

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### SECTION 8: Exposure controls/personal protection

#### **Control parameters** 8.1.

No relevant data available

8.2. Exposure controls	
Appropriate engineering controls	: Hydrogen sulphide may accumulate in the head space of storage tanks containing bitumen and can reach potentially hazardous concentrations. Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts. In absence of such indications, direct exposure to bitumen fumes can be assessed with a number of methods. Any comparison should be made only between data obtained with the same procedure. Dermal exposure can be assessed by the dermal patch method. Storage and handling temperatures should be kept as low as feasible to minimize fume production. Minimise exposure to fumes. Where hot product is handled in confined spaces, effective local ventilation must be provided. Do not enter empty storage tanks until measurements of available oxygen have been carried out.
Personal protective equipment	: Use of personal protective equipment must be consistent with good occupational hygiene practices. Face shield. Heatproof clothing. Insulated gloves. Safety glasses.
Hand protection	<ul> <li>Heat resistant gloves with long cuffs, or gauntlets. Gloves must be periodically inspected and changed in case of wear, perforations or contaminations.</li> </ul>
Eye protection	<ul> <li>If splashing is likely, full head and face protection (protective shield and/or safety goggles) should be used.</li> </ul>
Skin and body protection	: Wear protective clothing for operations with hot material: heat resistant coveralls (with trousers legs over boots and sleeves over cuffs of gloves), heat resistant heavy duty antiskid boots (e.g. leather). Coveralls should be changed at the end of the work shift and cleaned as necessary to avoid transfer of product to clothes or underwear. For loading/unloading operations: wear safety helmet with integrated full face visor and neck protection.
Respiratory protection	: Heated bitumen will give off fumes. Although these are unlikely to present a significant health hazard,. to avoid respiratory tract irritation inhalation exposure should be kept to a minimum,. by observing good work practice and ensuring good ventilation around work areas. Asphalt [bitumen] fume. Hydrogen sulphide. For this material there are occupational exposure limits set by: National Authorities of EU-member countries. National Authorities of other countries (non EU members). Competent Professional Bodies (i.e. American Conference of Industrial Hygienists, ACGIH). These values are recommended but not legally binding by themselves, unless adopted in a national legislation or labor contracts. recommended values for occupational exposure limits are not meant to replace any value set by official regulations or labour contracts. Approved respiratory protection equipment shall be used in spaces where hydrogen sulphide may accumulate: full face mask with cartridge/filter type "B" (grey for inorganic vapours including H2S) or self-contained breathing apparatus (SCBA). If exposure levels cannot be determined or estimated with adequate confidence, or an oxygen deficiency is possible, only SCBA's should be used.
Thermal hazard protection	Material handled at elevated temperature may cause thermal burns by contact with molten product. Thermal hazards :
Environmental exposure controls	: Store finished products in closed containers (e.g., bulk tanks, drums, cans);.
Consumer exposure controls	: Site documentation to support safe handling arrangements including the selection of engineering, administrative and personal protective equipment controls in accordance with risk-based management systems is available at each manufacturing site.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Appearance	: Flexible solid material. molten solid.	
Physical state	: Solid	
Boiling point	: > 400 °C	
Flash point	: > 220 °C	
Density	: > 1 g/cm <sup>3</sup>	
Viscosity, kinematic	: 230 - 300 mm²/s 135°C	
рН	: Not applicable	
9.2. Other information		

Any other additional information about the quality of the product will be indicated on the test report.

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Contact of hot product with water will result in a violent expansion as the water turns to steam. This may cause splashing of hot product, or damage to, or complete loss of the tank roof.

10.2. Chemical stability			
It does not need the addition of specific stabilizers.			
10.3. Possibility of hazardous reactions			
No relevant data available			
10.4. Conditions to avoid			
No relevant data available			
10.5. Incompatible materials			
No relevant data available			
<b>10.6.</b> Hazardous decomposition products			
No relevant data available			
SECTION 11: Toxicological informat	lon		
11.1. Information on toxicological effects			
Acute toxicity :	Not classified		
Construction Industry Bitumens (64742-93-4)			
LD50 oral rat	> 2000 mg/kg Literature data		
LD50 dermal rabbit	> 2000 mg/kg Literature data		
Skin corrosion/irritation	Not classified		
Serious eye damage/irritation	Not classified		
Respiratory or skin sensitisation:	Not classified		
Germ cell mutagenicity	Not classified		
Carcinogenicity	Not classified		
	Not classified		
Reproductive toxicity	Not classified		
Specific target organ toxicity (single exposure)	Not classified		
Specific target organ toxicity (repeated exposure)	Not classified		
Aspiration hazard	Not classified		
SECTION 12: Ecological information			
12.1. Toxicity			
No relevant data available			
12.2. Persistence and degradability			
No relevant data available			
12.3. Bioaccumulative potential			
No relevant data available			
12.4. Mobility in soil			
No relevant data available			
12.5. Results of PBT and vPvB assessment			
No relevant data available			
12.6. Other adverse effects			
No relevant data available			
SECTION 13: Disposal consideration	IS		
13.1. Waste treatment methods			
Regional legislation (waste)	2012. évi CLXXXV. törvény a hulladékról. DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives. 98/2001. (VI. 15.) Korm. rendelet a veszélyes		
	hulladékkal kapcsolatos tevékenységek végzésének feltételeiről (Hungarian regulation).		

# Construction Industry Bitumens Safety Data Sheet according to Regulation (EC) No. 2015/830 (REACH)

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SECTION 14: Transport informat	tion		
In accordance with ADR / RID / IMDG / IATA			
14.1. UN number			
14.2. UN proper shipping name			
Proper Shipping Name	: Elevated temperatu	re liquide, n.o.s	
14.3. Transport hazard class(es)			
Class (ADR)	: 9		
Danger labels (ADR)	: 9		
	9		
14.4. Packing group			
Not applicable			
14.5. Environmental hazards			
Other information	: No supplementary i	nformation available.	
14.6. Special precautions for user			
14.6.1. Overland transport	5		
Tunnel restriction code (ADR)	: D		
14.6.2. Transport by sea			
EmS	: F-A; S-P		
14.6.3. Air transport			
No relevant data available			
14.7. Transport in bulk according to A Not applicable	nnex II of MARPOL/3/78 a	and the IBC Code	
Νοι αρμιταύτε			
SECTION 15: Regulatory information	ation		
15.1. Safety, health and environmenta		pecific for the substance	or mixture
15.1.1. EU-Regulations			
No relevant data available			
15.1.2. National regulations			
Regional legislation			ungarian Public Act No. XXV./2000 on chemical
			rendelet a munkahelyek kémiai (II. 27.),REGULATION (EC) No 1272/2008 OF
	THE EUROPEAN P	PARLIAMENT AND OF THE	E COUNCIL of 16 December 2008 on
			ances and mixtures(CLP),REGULATION (EC) IENT AND OF THE COUNCIL of 18 December
	2006 concerning the	e Registration, Evaluation,	Authorisation and Restriction of Chemicals
			OF THE EUROPEAN PARLIAMENT AND OF sthat deplete the ozone layer,REGULATION
	(EC) No 689/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 June		
			gerous chemicals,REGULATION (EC) No AND OF THE COUNCIL of 29 April 2004 on
	persistent organic p	ollutants	
15.2. Chemical safety assessment			
Chemical Safety Assessment	: For this substance	a chemical safety assessm	nent has been carried out
SECTION 16: Other information			
ndication of changes: Revision - See : *. 2.0.			
	Indication of changes	Modified	
	Revision date	Modified	
6.3	Other information	Modified	
6.3	For containment	Modified	
	1	1	

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8.2	Personal protective Modified equipment		
SDS changed items	: All chapters were revised		
Data sources	: CONCAWE registration dossier. Data arise from reference works and literature. Data relies on practical experience.		
Abbreviations and acronyms	<ul> <li>All chapters were revised</li> <li>CONCAWE registration dossier. Data arise from reference works and literature. Data relies on</li> </ul>		
Training advice	informed. Make sure that employees are aware of the intoxication risk. Poeple wearing		

Precautionary statements (CLP):

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product