



Base oil BS 150

Safety Data Sheet

according to Regulation (EU) 2015/830
Issue date: 2/1/2021 Revision date: 4/19/2021 Supersedes version of: 2/1/2021 Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Chemical type : Substance
Trade name : Base oil BS 150
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EC Index-No. : 649-471-00-X
EC-No. : 265-166-0
CAS-No. : 64742-62-7
REACH registration No : 01-2119480472-38
Product code : MOL_07B2_121

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Consumer use, Professional use
Industrial/Professional use spec : Manufacture of substance
Formulation & (re)packing of substances and mixtures
Use as an intermediate
Distribution of substance
Uses in Coatings
Use in Cleaning Agents
Use in Oil and Gas field drilling and production operations
Metal working fluids / rolling oils
Use as binders and release agents
Rubber production and processing
Polymer processing
Use as a fuel
Lubricants
Use in laboratories
Use in mining operations
Water treatment chemicals
Functional Fluids
Use in Agrochemicals
Road and construction applications
Explosives manufacture & use

1.2.2. Uses advised against

No additional information 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

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

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

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United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Residual oils (petroleum), solvent-dewaxed	(CAS-No.) 64742-62-7 (EC-No.) 265-166-0 (EC Index-No.) 649-471-00-X (REACH-no) 01-2119480472-38-0018	≤ 100

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Do not give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If casualty is unconscious and: no 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 Allow the victim to rest. Obtain medical assistance if breathing remains difficult.
First-aid measures after skin contact	: Remove contaminated clothing, contaminated footwear and dispose of safely. Seek medical attention if skin irritation, swelling or redness develops and persists. Wash affected area with soap and water. When using high-pressure equipment, injection of product can occur. If high-pressure injuries occur, immediately seek professional medical attention. Do not wait for symptoms to develop. 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.
First-aid measures after eye contact	: 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. 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.
First-aid measures after ingestion	: Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Always assume that aspiration has occurred.

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

Symptoms/effects after inhalation	: Inhalation of vapours may cause headache, nausea, vomiting and an altered state of consciousness. Possible inflammation of the respiratory tract.
Symptoms/effects after skin contact	: Dry skin. Irritation may arise in case of repeated or prolonged exposure. May cause burn in case of contact with product at high temperature.
Symptoms/effects after eye contact	: mild eye irritation. May cause burn in case of contact with product at high temperature.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam (trained personnel only). Water fog (trained personnel only). Carbon dioxide. Other inert gases (subject to regulations). Sand or earth. Dry powder.
Unsuitable extinguishing media	: Do not use direct water jets on the burning product. 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 substance or mixture

Fire hazard	: Combustible liquid. May build up electrostatic charges: risk of ignition.
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Precautionary measures fire	: Keep container closed when not in use. Eliminate all ignition sources if safe to do so.
Firefighting instructions	: Evacuate area. Contain the extinguishing fluids by bunding.
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.

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Other information : Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide. High temperature decomposition products are harmful by inhalation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Stop engines and no smoking. Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Protective equipment : gloves made of PVA are not water-resistant, and are not suitable for emergency use. Antistatic non-skid safety shoes or boots. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. 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 : Ventilate spillage area. Stop or contain leak at the source, if safe to do so. Avoid direct contact with released material. Do not breathe vapours. Keep non-involved personnel away from the area of spillage. Alert emergency personnel. If required, notify relevant authorities according to all applicable regulations. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares. Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

prevent product from entering sewers, rivers or other bodies of water. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. 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. contain product with floating barriers or other equipment. Collect recovered product and other materials in suitable tanks or containers for recovery or safe disposal.

6.3. Methods and material for containment and cleaning up

For containment : Stop or contain leak at the source, if safe to do so. Collect spillage. Stop leak without risks if possible. Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Consult an expert on waste disposal or treatment. collect the product by skimming or other suitable mechanical means.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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. Keep away from heat/sparks/open flames/hot surfaces. Avoid contact with the hot product. Do not eat, drink or smoke when using this product. Prevent the build-up of electrostatic charge. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Do not ingest. Avoid splash filling of bulk volumes when handling hot liquid product. 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. Wash the hands thoroughly after handling.

Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Take off immediately all contaminated clothing and wash it before reuse.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Empty containers may contain flammable product residues. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned.
Storage conditions	: Keep container tightly closed. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible products	: Oxidizing agent.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Mineral oil mist : TWA: 5 mg/m³; STEL: 10 mg/m³, for oil mist, vapour excluded (ACGIH).
Method of testing, recommended: NIOSH 5026

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. EN 374. In case of splash hazard: safety glasses. EN 166. Protective clothing.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear security glasses which protect from splashes

8.2.2.2. Skin protection

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). Wear suitable coveralls to prevent exposure to the skin. Chemical resistant safety shoes

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Hand protection:

Gloves must be periodically inspected and changed in case of wear, perforations or contaminations. Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.

8.2.2.3. Respiratory protection

Respiratory protection:

to avoid respiratory tract irritation inhalation exposure should be kept to a minimum. If exposure levels cannot be determined or estimated with adequate confidence, or an oxygen deficiency is possible, only SCBA's should be used. If necessary, approved respiratory protection equipment shall be used when handling hot product in confined spaces: enclosed face mask with cartridge/filter type "A" or self-contained breathing apparatus (SCBA). Change filter cartridge on respirator daily

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: Free of sediment. clear.
Physical state	: Liquid
Colour	: Brown-yellow. brown.
Odour	: Oil-like odour. characteristic.
Boiling point	: 370 – 750 °C
Flash point	: > 260 °C Cleveland
Pour point (ISO 3016)	: < -9 °C
Density	: 0.9 – 0.91 g/cm ³ 15 °C, ISO 12185
Viscosity, kinematic	: > 400 mm ² /s 40°C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

This substance is stable under all ordinary circumstances at ambient temperatures, and if released into the environment.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard.

10.4. Conditions to avoid

They may be ignited by heat, sparks, static electricity or flames.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

No decomposition if stored normally.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Base oil BS 150 (64742-62-7)	
LD50 oral rat	> 5000 mg/kg bodyweight literature data
LD50 dermal rabbit	> 2000 mg/kg bodyweight literature data
LC50 Inhalation - Rat	> 5.53 mg/l 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

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Base oil BS 150 (64742-62-7)	
Viscosity, kinematic	> 400 mm ² /s 40°C
Hydrocarbon	Yes

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Base oil BS 150 (64742-62-7)	
LC50 - Fish [1]	> 100 mg/l literature data
EC50 - Other aquatic organisms [1]	> 100 mg/l literature data
ErC50 algae	> 100 mg/l literature data
NOEC chronic crustacea	> 1 mg/l literature data

12.2. Persistence and degradability

Base oil BS 150 (64742-62-7)	
Biodegradation	inherent biodegradable

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12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Kow)	> 6 (≥ 2) literature data, potentially bioaccumulative
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Dispose in accordance with local regulations. DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives.
Waste treatment methods	: Contain and dispose of waste according to local regulations. External recovery and recycling of waste should comply with applicable local and/or national regulations. Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.
Sewage disposal recommendations	: Do not empty into drains. Dispose of at a licensed waste collection centre.
Waste disposal recommendations	: Clear up spills immediately and dispose of waste safely. Dispose of waste or used sacks/containers according to local regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Hazardous waste. Avoid any discharge of the product into waste water. Recycle by distillation. Recycle/reuse. Disposal in high-temperature incinerator (> 1200 °C).
EWC (EURAL) code	: 13 02 08* - other engine, gear and lubricating oils

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	RID	ADN	IMDG	IATA
14.1. UN number				
Not regulated	Not regulated	9006	3082	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	9	9	Not regulated
14.4. Packing group				
Not regulated	Not regulated	III	III	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Not regulated
14.6. Special precautions for user				
		9 + (N1, N2, CMR, F or S)	EmS-No. (Fire) F-A	
No supplementary information available				

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Base oil BS 150 is not on the REACH Candidate List

Base oil BS 150 is not on the REACH Annex XIV List

Base oil BS 150 is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Base oil BS 150 is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Other information, restriction and prohibition regulations : Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Added	
14	UN-No. (IATA)	Added	
16	Training advice	Modified	

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

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LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. <http://echa.europa.eu/>. CONCAWE registration dossier. Data arise from reference works and literature. Data relies on practical experience.

Training advice : Before handling, storing or using the present substance for the first time, employees must be informed.

SDS EU (REACH Annex II) MOL

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.